FIGURE 1

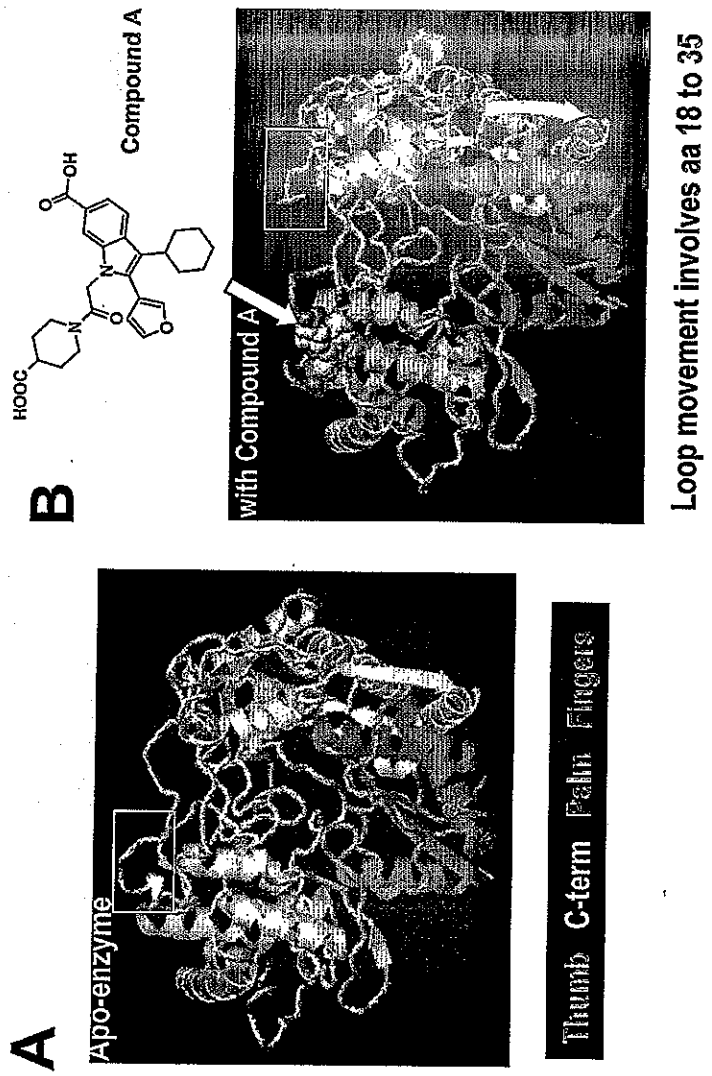

A
Apo-enzyme
Thumb
C-term
Palm
Fingers
B
Compound A
HOOC
OH
with Compound A
Loop movement involves aa 18 to 35

FIGURE 1 (CONT'D)

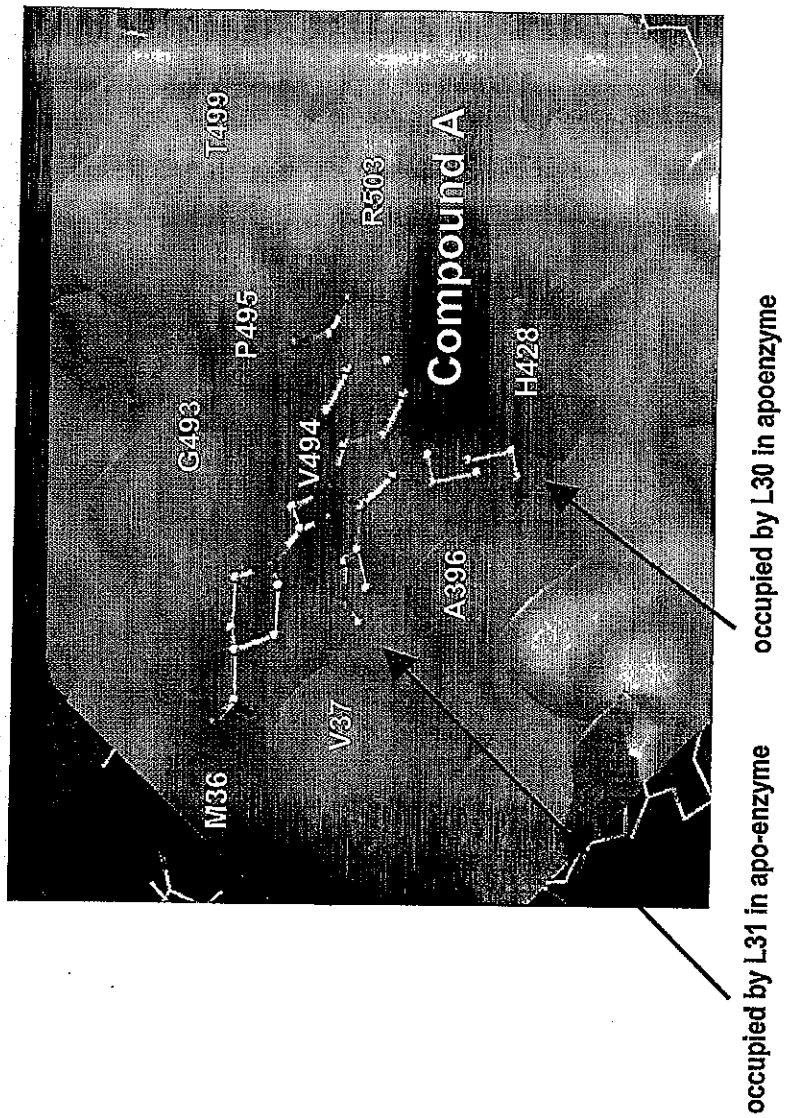
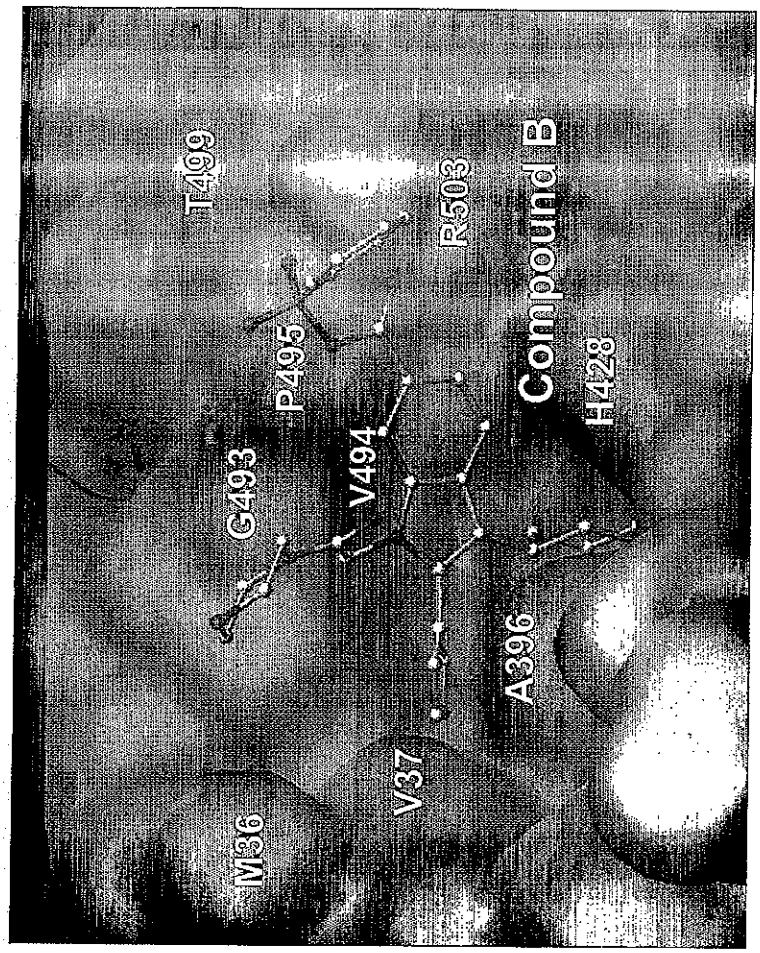
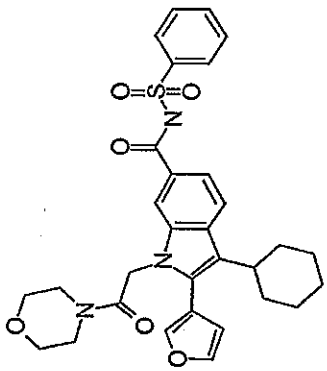


FIGURE 2





Compound B

FIGURE 3

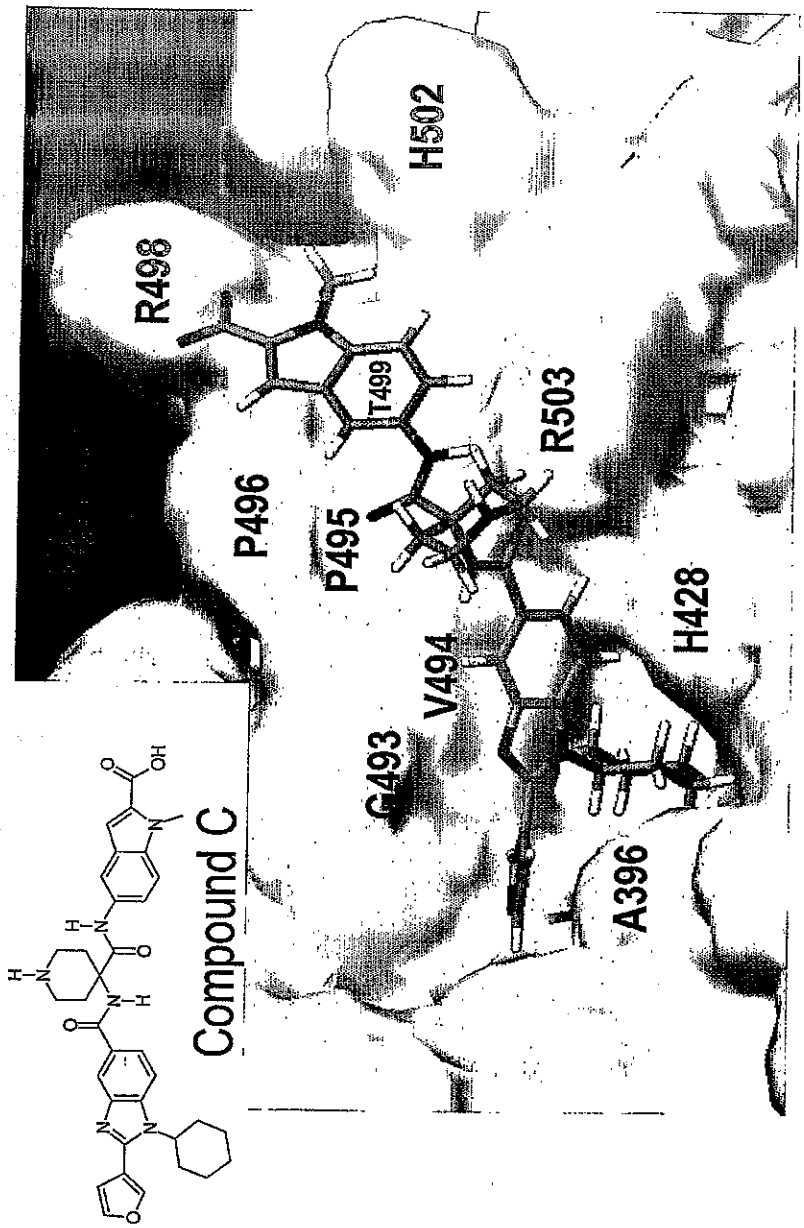


FIGURE 4

```
ATOM      1  CB  SER A   1      -7.482  44.347   4.675  1.00 20.95      A
ATOM      2  OG  SER A   1      -8.639  43.935   5.368  1.00 22.33      A
ATOM      3  C   SER A   1      -6.639  45.584   6.659  1.00 24.85      A
ATOM      4  O   SER A   1      -6.834  45.284   7.834  1.00 27.78      A
ATOM      5  N   SER A   1      -6.050  43.226   6.333  1.00 22.49      A
ATOM      6  CA  SER A   1      -6.314  44.510   5.636  1.00 23.26      A
ATOM      7  N   MET A   2      -6.682  46.835   6.220  1.00 25.16      A
ATOM      8  CA  MET A   2      -6.989  47.929   7.123  1.00 25.47      A
ATOM      9  CB  MET A   2      -6.702  49.270   6.452  1.00 25.93      A
ATOM     10  CG  MET A   2      -5.268  49.453   6.018  1.00 25.40      A
ATOM     11  SD  MET A   2      -4.135  49.394   7.395  1.00 30.56      A
ATOM     12  CE  MET A   2      -4.510  50.930   8.231  1.00 26.74      A
ATOM     13  C   MET A   2      -8.449  47.883   7.542  1.00 25.94      A
ATOM     14  O   MET A   2      -9.345  47.718   6.713  1.00 27.05      A
ATOM     15  N   SER A   3      -8.683  48.027   8.837  1.00 26.53      A
ATOM     16  CA  SER A   3     -10.036  48.020   9.374  1.00 26.62      A
ATOM     17  CB  SER A   3      -9.978  48.204  10.890  1.00 28.68      A
ATOM     18  OG  SER A   3      -9.069  49.236  11.238  1.00 29.50      A
ATOM     19  C   SER A   3     -10.853  49.143   8.743  1.00 26.08      A
ATOM     20  O   SER A   3     -12.023  48.964   8.407  1.00 25.82      A
ATOM     21  N   TYR A   4     -10.218  50.299   8.579  1.00 25.90      A
ATOM     22  CA  TYR A   4     -10.874  51.460   7.994  1.00 25.61      A
ATOM     23  CB  TYR A   4     -11.265  52.448   9.099  1.00 26.26      A
ATOM     24  CG  TYR A   4     -12.349  51.952  10.045  1.00 27.09      A
ATOM     25  CD1 TYR A   4     -13.702  52.163   9.759  1.00 25.48      A
ATOM     26  CE1 TYR A   4     -14.696  51.733  10.624  1.00 24.69      A
ATOM     27  CD2 TYR A   4     -12.023  51.286  11.230  1.00 25.97      A
ATOM     28  CE2 TYR A   4     -13.018  50.847  12.101  1.00 25.83      A
ATOM     29  CZ  TYR A   4     -14.348  51.073  11.791  1.00 25.02      A
ATOM     30  OH  TYR A   4     -15.327  50.613  12.637  1.00 26.07      A
ATOM     31  C   TYR A   4      -9.963  52.160   6.989  1.00 26.35      A
ATOM     32  O   TYR A   4      -8.741  51.976   7.005  1.00 26.86      A
ATOM     33  N   THR A   5     -10.576  52.942   6.103  1.00 25.37      A
ATOM     34  CA  THR A   5      -9.866  53.717   5.091  1.00 24.83      A
ATOM     35  CB  THR A   5      -9.947  53.073   3.709  1.00 23.68      A
ATOM     36  OG1 THR A   5      -8.950  52.058   3.597  1.00 24.30      A
ATOM     37  CG2 THR A   5      -9.725  54.109   2.633  1.00 23.44      A
ATOM     38  C   THR A   5     -10.604  55.037   5.035  1.00 26.41      A
ATOM     39  O   THR A   5     -11.830  55.048   4.926  1.00 27.83      A
ATOM     40  N   TRP A   6      -9.884  56.150   5.095  1.00 25.40      A
ATOM     41  CA  TRP A   6     -10.567  57.434   5.086  1.00 24.78      A
ATOM     42  CB  TRP A   6     -10.302  58.185   6.402  1.00 23.02      A
ATOM     43  CG  TRP A   6     -10.413  57.316   7.625  1.00 20.66      A
ATOM     44  CD2 TRP A   6     -11.609  56.963   8.328  1.00 21.24      A
ATOM     45  CE2 TRP A   6     -11.239  56.083   9.367  1.00 22.39      A
ATOM     46  CE3 TRP A   6     -12.962  57.303   8.182  1.00 20.74      A
ATOM     47  CD1 TRP A   6      -9.397  56.656   8.251  1.00 22.25      A
ATOM     48  NE1 TRP A   6      -9.881  55.914   9.297  1.00 23.35      A
ATOM     49  CZ2 TRP A   6     -12.170  55.539  10.253  1.00 19.48      A
ATOM     50  CZ3 TRP A   6     -13.884  56.765   9.065  1.00 18.77      A
ATOM     51  CH2 TRP A   6     -13.483  55.893  10.086  1.00 19.69      A
ATOM     52  C   TRP A   6     -10.228  58.326   3.906  1.00 24.57      A
ATOM     53  O   TRP A   6      -9.082  58.425   3.486  1.00 25.05      A
ATOM     54  N   THR A   7     -11.254  58.973   3.375  1.00 24.28      A
ATOM     55  CA  THR A   7     -11.103  59.880   2.255  1.00 24.64      A
ATOM     56  CB  THR A   7     -12.460  60.196   1.651  1.00 23.77      A
ATOM     57  OG1 THR A   7     -13.240  60.922   2.609  1.00 20.65      A
ATOM     58  CG2 THR A   7     -13.180  58.899   1.273  1.00 23.50      A
ATOM     59  C   THR A   7     -10.479  61.185   2.754  1.00 26.96      A
ATOM     60  O   THR A   7      -9.567  61.735   2.131  1.00 28.06      A
ATOM     61  N   GLY A   8     -10.972  61.663   3.893  1.00 27.34      A
ATOM     62  CA  GLY A   8     -10.475  62.898   4.467  1.00 27.13      A
ATOM     63  C   GLY A   8     -11.637  63.675   5.059  1.00 28.70      A
ATOM     64  O   GLY A   8     -11.463  64.542   5.926  1.00 27.87      A
ATOM     65  N   ALA A   9     -12.833  63.365   4.569  1.00 29.32      A
ATOM     66  CA  ALA A   9     -14.042  64.003   5.046  1.00 29.34      A
ATOM     67  CB  ALA A   9     -15.240  63.411   4.355  1.00 29.57      A
ATOM     68  C   ALA A   9     -14.106  63.731   6.538  1.00 30.70      A
ATOM     69  O   ALA A   9     -13.482  62.792   7.031  1.00 30.79      A
ATOM     70  N   LEU A  10     -14.864  64.546   7.257  1.00 31.95      A
ATOM     71  CA  LEU A  10     -14.967  64.385   8.696  1.00 32.39      A
ATOM     72  CB  LEU A  10     -14.810  65.743   9.381  1.00 32.52      A
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ATOM     73  CG  LEU A  10     -13.597  66.651   9.126  1.00 32.49      A
ATOM     74  CD1 LEU A  10     -13.818  67.963   9.865  1.00 31.26      A
ATOM     75  CD2 LEU A  10     -12.297  65.994   9.589  1.00 33.14      A
ATOM     76  C   LEU A  10     -16.281  63.770   9.149  1.00 33.04      A
ATOM     77  O   LEU A  10     -17.309  63.892   8.477  1.00 33.89      A
ATOM     78  N   ILE A  11     -16.236  63.100  10.295  1.00 32.70      A
ATOM     79  CA  ILE A  11     -17.437  62.512  10.871  1.00 32.81      A
ATOM     80  CB  ILE A  11     -17.098  61.472  11.957  1.00 32.99      A
ATOM     81  CG2 ILE A  11     -18.380  60.882  12.531  1.00 33.47      A
ATOM     82  CG1 ILE A  11     -16.243  60.356  11.356  1.00 31.64      A
ATOM     83  CD1 ILE A  11     -15.621  59.444  12.389  1.00 32.57      A
ATOM     84  C   ILE A  11     -18.157  63.712  11.485  1.00 32.37      A
ATOM     85  O   ILE A  11     -17.693  64.315  12.447  1.00 31.68      A
ATOM     86  N   THR A  12     -19.300  64.045  10.908  1.00 33.52      A
ATOM     87  CA  THR A  12     -20.072  65.201  11.308  1.00 34.79      A
ATOM     88  CB  THR A  12     -20.469  65.959  10.040  1.00 35.99      A
ATOM     89  OG1 THR A  12     -21.210  65.082   9.176  1.00 35.20      A
ATOM     90  CG2 THR A  12     -19.221  66.418   9.298  1.00 33.52      A
ATOM     91  C   THR A  12     -21.325  64.923  12.139  1.00 36.76      A
ATOM     92  O   THR A  12     -21.826  63.805  12.167  1.00 39.35      A
ATOM     93  N   PRO A  13     -21.834  65.949  12.839  1.00 37.78      A
ATOM     94  CD  PRO A  13     -21.008  67.105  13.208  1.00 37.55      A
ATOM     95  CA  PRO A  13     -23.027  65.908  13.692  1.00 39.06      A
ATOM     96  CB  PRO A  13     -22.660  66.839  14.850  1.00 38.87      A
ATOM     97  CG  PRO A  13     -21.184  67.119  14.674  1.00 37.23      A
ATOM     98  C   PRO A  13     -24.251  66.442  12.949  1.00 41.08      A
ATOM     99  O   PRO A  13     -24.104  67.141  11.951  1.00 42.28      A
ATOM    100  N   CYS A  14     -25.451  66.127  13.436  1.00 43.45      A
ATOM    101  CA  CYS A  14     -26.683  66.629  12.814  1.00 45.99      A
ATOM    102  CB  CYS A  14     -27.883  65.735  13.113  1.00 46.57      A
ATOM    103  SG  CYS A  14     -27.650  64.015  12.798  1.00 53.22      A
ATOM    104  C   CYS A  14     -26.968  67.958  13.469  1.00 46.67      A
ATOM    105  O   CYS A  14     -26.884  69.021  12.854  1.00 47.33      A
ATOM    106  N   ALA A  15     -27.315  67.859  14.745  1.00 47.70      A
ATOM    107  CA  ALA A  15     -27.635  69.004  15.573  1.00 47.69      A
ATOM    108  CB  ALA A  15     -28.810  68.660  16.481  1.00 48.35      A
ATOM    109  C   ALA A  15     -26.417  69.388  16.410  1.00 46.91      A
ATOM    110  O   ALA A  15     -25.363  68.747  16.319  1.00 45.80      A
ATOM    111  N   ALA A  16     -26.573  70.439  17.216  1.00 45.43      A
ATOM    112  CA  ALA A  16     -25.507  70.913  18.091  1.00 42.96      A
ATOM    113  CB  ALA A  16     -25.900  72.246  18.726  1.00 42.50      A
ATOM    114  C   ALA A  16     -25.300  69.849  19.165  1.00 41.95      A
ATOM    115  O   ALA A  16     -26.212  69.080  19.478  1.00 40.30      A
ATOM    116  N   GLU A  17     -24.100  69.805  19.728  1.00 40.93      A
ATOM    117  CA  GLU A  17     -23.786  68.818  20.743  1.00 39.98      A
ATOM    118  CB  GLU A  17     -22.618  67.951  20.271  1.00 40.14      A
ATOM    119  CG  GLU A  17     -22.861  67.234  18.946  1.00 38.65      A
ATOM    120  CD  GLU A  17     -21.573  66.837  18.251  1.00 38.29      A
ATOM    121  OE1 GLU A  17     -20.866  67.737  17.748  1.00 37.83      A
ATOM    122  OE2 GLU A  17     -21.265  65.629  18.212  1.00 39.10      A
ATOM    123  C   GLU A  17     -23.437  69.458  22.077  1.00 40.03      A
ATOM    124  O   GLU A  17     -22.506  70.252  22.180  1.00 39.44      A
ATOM    125  N   GLU A  18     -24.195  69.107  23.104  1.00 41.49      A
ATOM    126  CA  GLU A  18     -23.933  69.627  24.432  1.00 42.96      A
ATOM    127  CB  GLU A  18     -25.183  69.511  25.292  1.00 46.08      A
ATOM    128  CG  GLU A  18     -26.479  69.777  24.533  1.00 52.33      A
ATOM    129  CD  GLU A  18     -26.580  71.205  24.019  1.00 55.53      A
ATOM    130  OE1 GLU A  18     -26.495  72.146  24.846  1.00 57.64      A
ATOM    131  OE2 GLU A  18     -26.749  71.382  22.788  1.00 56.42      A
ATOM    132  C   GLU A  18     -22.834  68.728  24.989  1.00 42.31      A
ATOM    133  O   GLU A  18     -22.928  67.505  24.907  1.00 41.40      A
ATOM    134  N   SER A  19     -21.786  69.324  25.539  1.00 41.95      A
ATOM    135  CA  SER A  19     -20.699  68.532  26.092  1.00 41.75      A
ATOM    136  CB  SER A  19     -19.398  68.804  25.332  1.00 41.34      A
ATOM    137  OG  SER A  19     -19.041  70.174  25.403  1.00 42.40      A
ATOM    138  C   SER A  19     -20.490  68.812  27.574  1.00 41.20      A
ATOM    139  O   SER A  19     -19.828  68.044  28.267  1.00 39.91      A
ATOM    140  N   LYS A  20     -21.058  69.911  28.062  1.00 41.89      A
ATOM    141  CA  LYS A  20     -20.903  70.264  29.466  1.00 41.49      A
ATOM    142  CB  LYS A  20     -20.426  71.710  29.596  1.00 41.91      A
ATOM    143  CG  LYS A  20     -18.999  71.908  29.096  1.00 45.69      A
ATOM    144  CD  LYS A  20     -18.553  73.355  29.179  1.00 48.30      A
ATOM    145  CE  LYS A  20     -17.183  73.556  28.523  1.00 50.57      A
ATOM    146  NZ  LYS A  20     -16.739  74.996  28.530  1.00 49.74      A
ATOM    147  C   LYS A  20     -22.176  70.048  30.270  1.00 40.78      A
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ATOM	148	O	LYS	A	20	-23.289	70.152	29.745	1.00	40.80	A
ATOM	149	N	LEU	A	21	-21.991	69.725	31.546	1.00	39.67	A
ATOM	150	CA	LEU	A	21	-23.095	69.479	32.463	1.00	38.51	A
ATOM	151	CB	LEU	A	21	-22.602	68.643	33.642	1.00	36.37	A
ATOM	152	CG	LEU	A	21	-23.618	68.399	34.747	1.00	35.03	A
ATOM	153	CD1	LEU	A	21	-24.819	67.687	34.163	1.00	37.07	A
ATOM	154	CD2	LEU	A	21	-22.987	67.587	35.857	1.00	33.58	A
ATOM	155	C	LEU	A	21	-23.658	70.807	32.962	1.00	39.03	A
ATOM	156	O	LEU	A	21	-22.938	71.619	33.543	1.00	39.16	A
ATOM	157	N	PRO	A	22	-24.957	71.048	32.726	1.00	39.89	A
ATOM	158	CD	PRO	A	22	-25.840	70.224	31.879	1.00	41.52	A
ATOM	159	CA	PRO	A	22	-25.639	72.281	33.143	1.00	39.54	A
ATOM	160	CB	PRO	A	22	-27.059	72.086	32.613	1.00	39.86	A
ATOM	161	CG	PRO	A	22	-26.855	71.239	31.390	1.00	41.15	A
ATOM	162	C	PRO	A	22	-25.628	72.514	34.653	1.00	39.12	A
ATOM	163	O	PRO	A	22	-25.333	71.605	35.433	1.00	39.77	A
ATOM	164	N	ILE	A	23	-25.942	73.742	35.051	1.00	37.53	A
ATOM	165	CA	ILE	A	23	-26.003	74.106	36.456	1.00	37.15	A
ATOM	166	CB	ILE	A	23	-25.407	75.515	36.673	1.00	37.50	A
ATOM	167	CG2	ILE	A	23	-25.575	75.959	38.134	1.00	36.43	A
ATOM	168	CG1	ILE	A	23	-23.925	75.494	36.281	1.00	37.34	A
ATOM	169	CD1	ILE	A	23	-23.203	76.807	36.500	1.00	38.57	A
ATOM	170	C	ILE	A	23	-27.486	74.061	36.827	1.00	36.82	A
ATOM	171	O	ILE	A	23	-28.147	75.088	36.963	1.00	38.77	A
ATOM	172	N	ASN	A	24	-27.993	72.844	36.978	1.00	35.92	A
ATOM	173	CA	ASN	A	24	-29.394	72.595	37.281	1.00	35.50	A
ATOM	174	CB	ASN	A	24	-29.849	71.425	36.412	1.00	37.27	A
ATOM	175	CG	ASN	A	24	-31.320	71.139	36.534	1.00	40.48	A
ATOM	176	OD1	ASN	A	24	-31.814	70.822	37.618	1.00	43.45	A
ATOM	177	ND2	ASN	A	24	-32.037	71.238	35.415	1.00	39.91	A
ATOM	178	C	ASN	A	24	-29.630	72.297	38.769	1.00	34.25	A
ATOM	179	O	ASN	A	24	-28.961	71.452	39.358	1.00	33.24	A
ATOM	180	N	PRO	A	25	-30.588	72.994	39.397	1.00	32.92	A
ATOM	181	CD	PRO	A	25	-31.496	74.018	38.856	1.00	32.36	A
ATOM	182	CA	PRO	A	25	-30.856	72.752	40.821	1.00	32.98	A
ATOM	183	CB	PRO	A	25	-32.003	73.722	41.136	1.00	30.78	A
ATOM	184	CG	PRO	A	25	-32.657	73.943	39.818	1.00	31.80	A
ATOM	185	C	PRO	A	25	-31.187	71.295	41.150	1.00	32.54	A
ATOM	186	O	PRO	A	25	-30.824	70.793	42.218	1.00	32.16	A
ATOM	187	N	LEU	A	26	-31.863	70.624	40.223	1.00	32.31	A
ATOM	188	CA	LEU	A	26	-32.236	69.224	40.392	1.00	32.00	A
ATOM	189	CB	LEU	A	26	-33.240	68.822	39.316	1.00	32.25	A
ATOM	190	CG	LEU	A	26	-34.704	68.772	39.746	1.00	32.38	A
ATOM	191	CD1	LEU	A	26	-34.984	69.857	40.757	1.00	31.56	A
ATOM	192	CD2	LEU	A	26	-35.587	68.901	38.515	1.00	31.52	A
ATOM	193	C	LEU	A	26	-31.028	68.298	40.326	1.00	32.09	A
ATOM	194	O	LEU	A	26	-30.848	67.445	41.190	1.00	31.82	A
ATOM	195	N	SER	A	27	-30.207	68.456	39.293	1.00	31.10	A
ATOM	196	CA	SER	A	27	-29.019	67.625	39.149	1.00	28.36	A
ATOM	197	CB	SER	A	27	-28.418	67.808	37.756	1.00	27.66	A
ATOM	198	OG	SER	A	27	-27.870	69.108	37.599	1.00	25.09	A
ATOM	199	C	SER	A	27	-27.969	68.001	40.195	1.00	27.50	A
ATOM	200	O	SER	A	27	-27.220	67.161	40.668	1.00	26.79	A
ATOM	201	N	ASN	A	28	-27.926	69.275	40.551	1.00	28.69	A
ATOM	202	CA	ASN	A	28	-26.950	69.769	41.506	1.00	29.54	A
ATOM	203	CB	ASN	A	28	-26.990	71.292	41.543	1.00	31.61	A
ATOM	204	CG	ASN	A	28	-25.876	71.873	42.379	1.00	34.36	A
ATOM	205	OD1	ASN	A	28	-24.701	71.746	42.035	1.00	36.32	A
ATOM	206	ND2	ASN	A	28	-26.235	72.506	43.490	1.00	34.80	A
ATOM	207	C	ASN	A	28	-27.089	69.226	42.929	1.00	29.36	A
ATOM	208	O	ASN	A	28	-26.114	69.213	43.688	1.00	26.64	A
ATOM	209	N	SER	A	29	-28.291	68.790	43.300	1.00	30.03	A
ATOM	210	CA	SER	A	29	-28.494	68.257	44.642	1.00	30.37	A
ATOM	211	CB	SER	A	29	-29.973	68.355	45.064	1.00	31.75	A
ATOM	212	OG	SER	A	29	-30.830	67.505	44.316	1.00	31.94	A
ATOM	213	C	SER	A	29	-28.019	66.818	44.654	1.00	30.32	A
ATOM	214	O	SER	A	29	-27.967	66.182	45.703	1.00	32.63	A
ATOM	215	N	LEU	A	30	-27.648	66.326	43.473	1.00	29.55	A
ATOM	216	CA	LEU	A	30	-27.155	64.962	43.291	1.00	27.59	A
ATOM	217	CB	LEU	A	30	-27.874	64.295	42.117	1.00	26.17	A
ATOM	218	CG	LEU	A	30	-27.234	63.042	41.506	1.00	25.01	A
ATOM	219	CD1	LEU	A	30	-27.157	61.935	42.537	1.00	22.15	A
ATOM	220	CD2	LEU	A	30	-28.043	62.603	40.304	1.00	22.76	A
ATOM	221	C	LEU	A	30	-25.650	64.912	43.047	1.00	27.58	A
ATOM	222	O	LEU	A	30	-24.969	64.047	43.589	1.00	28.98	A

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ATOM    223  N   LEU A  31     -25.132  65.831  42.234  1.00 26.72      A
ATOM    224  CA  LEU A  31     -23.701  65.862  41.923  1.00 26.57      A
ATOM    225  CB  LEU A  31     -23.474  65.075  40.632  1.00 24.46      A
ATOM    226  CG  LEU A  31     -22.072  64.739  40.142  1.00 22.76      A
ATOM    227  CD1 LEU A  31     -22.121  63.498  39.279  1.00 16.54      A
ATOM    228  CD2 LEU A  31     -21.511  65.923  39.373  1.00 23.10      A
ATOM    229  C   LEU A  31     -23.208  67.314  41.798  1.00 28.06      A
ATOM    230  O   LEU A  31     -23.499  68.001  40.820  1.00 28.00      A
ATOM    231  N   ARG A  32     -22.457  67.770  42.799  1.00 29.61      A
ATOM    232  CA  ARG A  32     -21.961  69.149  42.843  1.00 30.91      A
ATOM    233  CB  ARG A  32     -21.525  69.514  44.273  1.00 33.55      A
ATOM    234  CG  ARG A  32     -22.643  69.951  45.215  1.00 37.30      A
ATOM    235  CD  ARG A  32     -23.710  68.876  45.369  1.00 42.19      A
ATOM    236  NE  ARG A  32     -24.915  69.391  46.017  1.00 45.78      A
ATOM    237  CZ  ARG A  32     -25.077  69.497  47.332  1.00 46.81      A
ATOM    238  NH1 ARG A  32     -24.101  69.115  48.150  1.00 46.00      A
ATOM    239  NH2 ARG A  32     -26.214  69.989  47.824  1.00 46.62      A
ATOM    240  C   ARG A  32     -20.835  69.521  41.890  1.00 29.97      A
ATOM    241  O   ARG A  32     -20.848  70.615  41.337  1.00 30.02      A
ATOM    242  N   HIS A  33     -19.864  68.628  41.714  1.00 30.22      A
ATOM    243  CA  HIS A  33     -18.713  68.879  40.837  1.00 30.26      A
ATOM    244  CB  HIS A  33     -17.551  67.954  41.222  1.00 30.86      A
ATOM    245  CG  HIS A  33     -17.082  68.126  42.636  1.00 32.66      A
ATOM    246  CD2 HIS A  33     -17.330  69.099  43.546  1.00 31.30      A
ATOM    247  ND1 HIS A  33     -16.256  67.217  43.263  1.00 31.65      A
ATOM    248  CE1 HIS A  33     -16.019  67.620  44.497  1.00 30.77      A
ATOM    249  NE2 HIS A  33     -16.659  68.759  44.694  1.00 32.07      A
ATOM    250  C   HIS A  33     -19.059  68.677  39.366  1.00 30.78      A
ATOM    251  O   HIS A  33     -18.454  67.847  38.677  1.00 31.21      A
ATOM    252  N   HIS A  34     -20.019  69.456  38.884  1.00 29.67      A
ATOM    253  CA  HIS A  34     -20.472  69.344  37.514  1.00 30.28      A
ATOM    254  CB  HIS A  34     -21.570  70.375  37.259  1.00 31.59      A
ATOM    255  CG  HIS A  34     -21.130  71.795  37.444  1.00 35.36      A
ATOM    256  CD2 HIS A  34     -21.431  72.702  38.405  1.00 34.60      A
ATOM    257  ND1 HIS A  34     -20.297  72.441  36.552  1.00 34.85      A
ATOM    258  CE1 HIS A  34     -20.110  73.686  36.955  1.00 35.22      A
ATOM    259  NE2 HIS A  34     -20.787  73.870  38.075  1.00 36.06      A
ATOM    260  C   HIS A  34     -19.377  69.438  36.446  1.00 31.28      A
ATOM    261  O   HIS A  34     -19.532  68.888  35.352  1.00 32.38      A
ATOM    262  N   ASN A  35     -18.270  70.108  36.746  1.00 30.52      A
ATOM    263  CA  ASN A  35     -17.198  70.226  35.760  1.00 30.08      A
ATOM    264  CB  ASN A  35     -16.180  71.307  36.177  1.00 31.19      A
ATOM    265  CG  ASN A  35     -16.718  72.734  36.012  1.00 30.35      A
ATOM    266  OD1 ASN A  35     -17.338  73.066  35.003  1.00 29.94      A
ATOM    267  ND2 ASN A  35     -16.461  73.580  36.999  1.00 29.06      A
ATOM    268  C   ASN A  35     -16.460  68.905  35.501  1.00 30.08      A
ATOM    269  O   ASN A  35     -15.623  68.817  34.602  1.00 30.51      A
ATOM    270  N   MET A  36     -16.751  67.877  36.288  1.00 29.38      A
ATOM    271  CA  MET A  36     -16.092  66.595  36.078  1.00 29.29      A
ATOM    272  CB  MET A  36     -15.768  65.940  37.412  1.00 30.50      A
ATOM    273  CG  MET A  36     -14.831  66.716  38.284  1.00 31.98      A
ATOM    274  SD  MET A  36     -14.975  66.087  39.955  1.00 37.33      A
ATOM    275  CE  MET A  36     -14.175  64.483  39.762  1.00 35.98      A
ATOM    276  C   MET A  36     -16.981  65.655  35.260  1.00 28.63      A
ATOM    277  O   MET A  36     -16.655  64.479  35.078  1.00 27.25      A
ATOM    278  N   VAL A  37     -18.101  66.186  34.774  1.00 27.53      A
ATOM    279  CA  VAL A  37     -19.057  65.411  33.990  1.00 25.91      A
ATOM    280  CB  VAL A  37     -20.493  65.505  34.594  1.00 24.52      A
ATOM    281  CG1 VAL A  37     -21.466  64.665  33.790  1.00 22.88      A
ATOM    282  CG2 VAL A  37     -20.486  65.047  36.032  1.00 22.23      A
ATOM    283  C   VAL A  37     -19.101  65.920  32.558  1.00 26.11      A
ATOM    284  O   VAL A  37     -19.560  67.030  32.306  1.00 24.30      A
ATOM    285  N   TYR A  38     -18.614  65.111  31.619  1.00 27.53      A
ATOM    286  CA  TYR A  38     -18.630  65.503  30.212  1.00 27.20      A
ATOM    287  CB  TYR A  38     -17.213  65.722  29.675  1.00 26.48      A
ATOM    288  CG  TYR A  38     -16.363  64.478  29.607  1.00 28.27      A
ATOM    289  CD1 TYR A  38     -15.731  63.976  30.745  1.00 28.52      A
ATOM    290  CE1 TYR A  38     -14.953  62.820  30.690  1.00 28.38      A
ATOM    291  CD2 TYR A  38     -16.196  63.793  28.407  1.00 28.80      A
ATOM    292  CE2 TYR A  38     -15.423  62.634  28.342  1.00 30.15      A
ATOM    293  CZ  TYR A  38     -14.803  62.150  29.488  1.00 29.34      A
ATOM    294  OH  TYR A  38     -14.049  60.994  29.423  1.00 29.22      A
ATOM    295  C   TYR A  38     -19.331  64.482  29.332  1.00 27.78      A
ATOM    296  O   TYR A  38     -19.643  63.357  29.763  1.00 25.88      A
ATOM    297  N   ALA A  39     -19.578  64.903  28.092  1.00 27.73      A
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ATOM	298	CA	ALA	A	39	-20.231	64.074	27.084	1.00	26.94	A
ATOM	299	CB	ALA	A	39	-21.582	64.661	26.708	1.00	23.46	A
ATOM	300	C	ALA	A	39	-19.316	64.076	25.878	1.00	26.69	A
ATOM	301	O	ALA	A	39	-18.753	65.121	25.540	1.00	28.90	A
ATOM	302	N	THR	A	40	-19.140	62.921	25.246	1.00	24.20	A
ATOM	303	CA	THR	A	40	-18.303	62.861	24.054	1.00	23.52	A
ATOM	304	CB	THR	A	40	-18.049	61.428	23.620	1.00	21.67	A
ATOM	305	OG1	THR	A	40	-19.307	60.768	23.442	1.00	23.26	A
ATOM	306	CG2	THR	A	40	-17.223	60.697	24.647	1.00	20.09	A
ATOM	307	C	THR	A	40	-19.064	63.551	22.921	1.00	24.73	A
ATOM	308	O	THR	A	40	-20.291	63.644	22.962	1.00	26.42	A
ATOM	309	N	THR	A	41	-18.344	64.053	21.924	1.00	24.65	A
ATOM	310	CA	THR	A	41	-18.985	64.695	20.780	1.00	26.03	A
ATOM	311	CB	THR	A	41	-19.091	66.221	20.929	1.00	26.58	A
ATOM	312	OG1	THR	A	41	-17.821	66.816	20.636	1.00	28.07	A
ATOM	313	CG2	THR	A	41	-19.521	66.587	22.329	1.00	24.88	A
ATOM	314	C	THR	A	41	-18.126	64.409	19.568	1.00	26.47	A
ATOM	315	O	THR	A	41	-17.007	63.906	19.714	1.00	25.86	A
ATOM	316	N	SER	A	42	-18.645	64.740	18.385	1.00	26.56	A
ATOM	317	CA	SER	A	42	-17.933	64.508	17.129	1.00	27.56	A
ATOM	318	CB	SER	A	42	-18.738	65.056	15.963	1.00	26.69	A
ATOM	319	OG	SER	A	42	-18.642	66.466	15.945	1.00	31.58	A
ATOM	320	C	SER	A	42	-16.564	65.177	17.146	1.00	27.34	A
ATOM	321	O	SER	A	42	-15.624	64.715	16.506	1.00	26.56	A
ATOM	322	N	ARG	A	43	-16.454	66.264	17.901	1.00	28.31	A
ATOM	323	CA	ARG	A	43	-15.196	66.995	17.989	1.00	27.85	A
ATOM	324	CB	ARG	A	43	-15.293	68.132	19.017	1.00	27.40	A
ATOM	325	CG	ARG	A	43	-16.223	69.266	18.617	1.00	27.32	A
ATOM	326	CD	ARG	A	43	-15.946	70.500	19.449	1.00	27.75	A
ATOM	327	NE	ARG	A	43	-16.281	70.326	20.860	1.00	27.33	A
ATOM	328	CZ	ARG	A	43	-17.523	70.224	21.327	1.00	26.79	A
ATOM	329	NH1	ARG	A	43	-18.558	70.276	20.493	1.00	24.30	A
ATOM	330	NH2	ARG	A	43	-17.729	70.076	22.630	1.00	25.00	A
ATOM	331	C	ARG	A	43	-13.987	66.133	18.319	1.00	26.28	A
ATOM	332	O	ARG	A	43	-12.866	66.584	18.129	1.00	26.82	A
ATOM	333	N	SER	A	44	-14.193	64.913	18.814	1.00	24.09	A
ATOM	334	CA	SER	A	44	-13.060	64.051	19.146	1.00	22.31	A
ATOM	335	CB	SER	A	44	-13.070	63.666	20.635	1.00	23.11	A
ATOM	336	OG	SER	A	44	-14.236	62.948	21.027	1.00	23.44	A
ATOM	337	C	SER	A	44	-13.015	62.795	18.295	1.00	22.87	A
ATOM	338	O	SER	A	44	-12.144	61.948	18.480	1.00	22.31	A
ATOM	339	N	ALA	A	45	-13.941	62.685	17.349	1.00	22.54	A
ATOM	340	CA	ALA	A	45	-14.000	61.522	16.477	1.00	23.58	A
ATOM	341	CB	ALA	A	45	-14.947	61.797	15.322	1.00	23.70	A
ATOM	342	C	ALA	A	45	-12.620	61.166	15.945	1.00	24.26	A
ATOM	343	O	ALA	A	45	-12.209	60.011	15.956	1.00	24.85	A
ATOM	344	N	SER	A	46	-11.912	62.184	15.481	1.00	26.45	A
ATOM	345	CA	SER	A	46	-10.570	62.043	14.924	1.00	28.96	A
ATOM	346	CB	SER	A	46	-9.941	63.433	14.790	1.00	29.65	A
ATOM	347	OG	SER	A	46	-8.528	63.348	14.767	1.00	32.82	A
ATOM	348	C	SER	A	46	-9.640	61.133	15.726	1.00	29.72	A
ATOM	349	O	SER	A	46	-8.979	60.252	15.169	1.00	29.52	A
ATOM	350	N	LEU	A	47	-9.580	61.360	17.033	1.00	30.61	A
ATOM	351	CA	LEU	A	47	-8.726	60.567	17.910	1.00	31.43	A
ATOM	352	CB	LEU	A	47	-8.832	61.092	19.342	1.00	31.67	A
ATOM	353	CG	LEU	A	47	-8.305	62.524	19.465	1.00	31.65	A
ATOM	354	CD1	LEU	A	47	-8.726	63.133	20.773	1.00	28.90	A
ATOM	355	CD2	LEU	A	47	-6.793	62.502	19.318	1.00	31.27	A
ATOM	356	C	LEU	A	47	-9.106	59.100	17.863	1.00	32.22	A
ATOM	357	O	LEU	A	47	-8.240	58.232	17.741	1.00	32.86	A
ATOM	358	N	ARG	A	48	-10.409	58.836	17.951	1.00	31.88	A
ATOM	359	CA	ARG	A	48	-10.937	57.481	17.922	1.00	31.64	A
ATOM	360	CB	ARG	A	48	-12.451	57.518	18.126	1.00	32.49	A
ATOM	361	CG	ARG	A	48	-13.093	56.161	18.304	1.00	32.06	A
ATOM	362	CD	ARG	A	48	-12.493	55.420	19.488	1.00	36.75	A
ATOM	363	NE	ARG	A	48	-13.033	54.066	19.586	1.00	41.78	A
ATOM	364	CZ	ARG	A	48	-12.594	53.132	20.425	1.00	42.29	A
ATOM	365	NH1	ARG	A	48	-11.590	53.398	21.257	1.00	42.30	A
ATOM	366	NH2	ARG	A	48	-13.166	51.932	20.429	1.00	40.55	A
ATOM	367	C	ARG	A	48	-10.593	56.789	16.605	1.00	31.78	A
ATOM	368	O	ARG	A	48	-10.209	55.616	16.590	1.00	31.13	A
ATOM	369	N	GLN	A	49	-10.726	57.515	15.499	1.00	31.01	A
ATOM	370	CA	GLN	A	49	-10.399	56.954	14.190	1.00	31.20	A
ATOM	371	CB	GLN	A	49	-10.619	57.990	13.095	1.00	31.31	A
ATOM	372	CG	GLN	A	49	-12.033	58.471	12.986	1.00	33.71	A

ATOM	373	CD	GLN	A	49	-12.187	59.568	11.960	1.00	33.91	A
ATOM	374	OE1	GLN	A	49	-11.939	59.365	10.768	1.00	31.66	A
ATOM	375	NE2	GLN	A	49	-12.600	60.746	12.418	1.00	34.75	A
ATOM	376	C	GLN	A	49	-8.932	56.538	14.176	1.00	30.20	A
ATOM	377	O	GLN	A	49	-8.555	55.519	13.592	1.00	28.42	A
ATOM	378	N	LYS	A	50	-8.117	57.349	14.834	1.00	29.50	A
ATOM	379	CA	LYS	A	50	-6.692	57.114	14.904	1.00	30.34	A
ATOM	380	CB	LYS	A	50	-6.019	58.306	15.589	1.00	31.70	A
ATOM	381	CG	LYS	A	50	-4.647	58.655	15.048	1.00	33.38	A
ATOM	382	CD	LYS	A	50	-3.525	57.928	15.771	1.00	36.10	A
ATOM	383	CE	LYS	A	50	-2.198	58.177	15.062	1.00	38.45	A
ATOM	384	NZ	LYS	A	50	-2.184	59.506	14.356	1.00	40.27	A
ATOM	385	C	LYS	A	50	-6.391	55.829	15.656	1.00	29.98	A
ATOM	386	O	LYS	A	50	-5.373	55.189	15.410	1.00	31.09	A
ATOM	387	N	LYS	A	51	-7.282	55.442	16.563	1.00	29.87	A
ATOM	388	CA	LYS	A	51	-7.066	54.231	17.350	1.00	29.63	A
ATOM	389	CB	LYS	A	51	-7.645	54.396	18.756	1.00	30.41	A
ATOM	390	CG	LYS	A	51	-7.327	53.235	19.684	1.00	32.68	A
ATOM	391	CD	LYS	A	51	-7.785	53.537	21.104	1.00	36.36	A
ATOM	392	CE	LYS	A	51	-7.243	52.516	22.111	1.00	38.74	A
ATOM	393	NZ	LYS	A	51	-7.634	52.866	23.505	1.00	37.32	A
ATOM	394	C	LYS	A	51	-7.647	52.976	16.728	1.00	28.59	A
ATOM	395	O	LYS	A	51	-7.040	51.911	16.800	1.00	28.94	A
ATOM	396	N	VAL	A	52	-8.822	53.107	16.118	1.00	27.85	A
ATOM	397	CA	VAL	A	52	-9.509	51.974	15.500	1.00	26.72	A
ATOM	398	CB	VAL	A	52	-11.020	52.237	15.417	1.00	23.82	A
ATOM	399	CG1	VAL	A	52	-11.551	52.627	16.786	1.00	23.25	A
ATOM	400	CG2	VAL	A	52	-11.295	53.335	14.412	1.00	21.63	A
ATOM	401	C	VAL	A	52	-9.010	51.623	14.095	1.00	26.99	A
ATOM	402	O	VAL	A	52	-9.414	50.608	13.527	1.00	27.38	A
ATOM	403	N	THR	A	53	-8.147	52.464	13.533	1.00	26.02	A
ATOM	404	CA	THR	A	53	-7.631	52.203	12.199	1.00	25.58	A
ATOM	405	CB	THR	A	53	-7.544	53.493	11.351	1.00	23.73	A
ATOM	406	OG1	THR	A	53	-8.831	54.115	11.276	1.00	22.88	A
ATOM	407	CG2	THR	A	53	-7.080	53.169	9.950	1.00	22.89	A
ATOM	408	C	THR	A	53	-6.253	51.561	12.276	1.00	26.03	A
ATOM	409	O	THR	A	53	-5.293	52.152	12.772	1.00	27.25	A
ATOM	410	N	PHE	A	54	-6.175	50.333	11.790	1.00	25.50	A
ATOM	411	CA	PHE	A	54	-4.937	49.597	11.779	1.00	25.44	A
ATOM	412	CB	PHE	A	54	-4.512	49.232	13.209	1.00	24.56	A
ATOM	413	CG	PHE	A	54	-5.487	48.362	13.939	1.00	24.61	A
ATOM	414	CD1	PHE	A	54	-5.531	46.997	13.702	1.00	24.53	A
ATOM	415	CD2	PHE	A	54	-6.373	48.914	14.860	1.00	25.39	A
ATOM	416	CE1	PHE	A	54	-6.445	46.188	14.369	1.00	25.59	A
ATOM	417	CE2	PHE	A	54	-7.293	48.117	15.534	1.00	25.70	A
ATOM	418	CZ	PHE	A	54	-7.331	46.751	15.290	1.00	25.74	A
ATOM	419	C	PHE	A	54	-5.090	48.356	10.914	1.00	26.94	A
ATOM	420	O	PHE	A	54	-6.190	48.025	10.449	1.00	26.00	A
ATOM	421	N	ASP	A	55	-3.969	47.688	10.690	1.00	27.26	A
ATOM	422	CA	ASP	A	55	-3.942	46.499	9.874	1.00	29.10	A
ATOM	423	CB	ASP	A	55	-2.609	46.437	9.149	1.00	31.91	A
ATOM	424	CG	ASP	A	55	-2.741	45.879	7.774	1.00	35.21	A
ATOM	425	OD1	ASP	A	55	-3.730	46.254	7.109	1.00	39.07	A
ATOM	426	OD2	ASP	A	55	-1.869	45.088	7.352	1.00	36.16	A
ATOM	427	C	ASP	A	55	-4.128	45.265	10.742	1.00	29.81	A
ATOM	428	O	ASP	A	55	-3.484	45.128	11.787	1.00	29.86	A
ATOM	429	N	ARG	A	56	-5.001	44.360	10.311	1.00	29.94	A
ATOM	430	CA	ARG	A	56	-5.256	43.152	11.090	1.00	30.38	A
ATOM	431	CB	ARG	A	56	-6.740	42.748	11.002	1.00	28.00	A
ATOM	432	CG	ARG	A	56	-7.725	43.620	11.797	1.00	26.76	A
ATOM	433	CD	ARG	A	56	-7.959	44.972	11.145	1.00	24.68	A
ATOM	434	NE	ARG	A	56	-8.445	44.849	9.768	1.00	25.09	A
ATOM	435	CZ	ARG	A	56	-9.669	44.454	9.426	1.00	24.83	A
ATOM	436	NH1	ARG	A	56	-10.555	44.138	10.356	1.00	27.38	A
ATOM	437	NH2	ARG	A	56	-10.014	44.368	8.152	1.00	25.72	A
ATOM	438	C	ARG	A	56	-4.382	41.938	10.738	1.00	31.72	A
ATOM	439	O	ARG	A	56	-4.316	41.493	9.586	1.00	31.92	A
ATOM	440	N	LEU	A	57	-3.710	41.406	11.753	1.00	32.06	A
ATOM	441	CA	LEU	A	57	-2.873	40.218	11.590	1.00	32.06	A
ATOM	442	CB	LEU	A	57	-1.603	40.346	12.454	1.00	32.83	A
ATOM	443	CG	LEU	A	57	-0.555	39.225	12.521	1.00	31.99	A
ATOM	444	CD1	LEU	A	57	0.691	39.743	13.219	1.00	30.96	A
ATOM	445	CD2	LEU	A	57	-1.113	38.022	13.268	1.00	32.49	A
ATOM	446	C	LEU	A	57	-3.714	39.028	12.055	1.00	29.73	A
ATOM	447	O	LEU	A	57	-4.311	39.083	13.124	1.00	30.62	A

ATOM	448	N	GLN	A	58	-3.774	37.964	11.260	1.00	28.15	A
ATOM	449	CA	GLN	A	58	-4.553	36.792	11.656	1.00	26.26	A
ATOM	450	CB	GLN	A	58	-6.019	36.981	11.276	1.00	25.85	A
ATOM	451	CG	GLN	A	58	-6.935	35.891	11.808	1.00	23.49	A
ATOM	452	CD	GLN	A	58	-8.398	36.271	11.720	1.00	22.53	A
ATOM	453	OE1	GLN	A	58	-8.898	36.656	10.657	1.00	23.32	A
ATOM	454	NE2	GLN	A	58	-9.096	36.160	12.836	1.00	20.93	A
ATOM	455	C	GLN	A	58	-4.053	35.473	11.082	1.00	25.86	A
ATOM	456	O	GLN	A	58	-4.035	35.275	9.872	1.00	25.13	A
ATOM	457	N	VAL	A	59	-3.649	34.572	11.966	1.00	25.90	A
ATOM	458	CA	VAL	A	59	-3.156	33.269	11.558	1.00	26.27	A
ATOM	459	CB	VAL	A	59	-1.724	33.029	12.039	1.00	26.98	A
ATOM	460	CG1	VAL	A	59	-1.210	31.705	11.490	1.00	25.10	A
ATOM	461	CG2	VAL	A	59	-0.838	34.192	11.631	1.00	27.44	A
ATOM	462	C	VAL	A	59	-4.028	32.245	12.240	1.00	27.11	A
ATOM	463	O	VAL	A	59	-4.089	32.214	13.464	1.00	27.57	A
ATOM	464	N	LEU	A	60	-4.691	31.404	11.456	1.00	27.28	A
ATOM	465	CA	LEU	A	60	-5.562	30.384	12.019	1.00	28.02	A
ATOM	466	CB	LEU	A	60	-6.707	30.084	11.050	1.00	27.34	A
ATOM	467	CG	LEU	A	60	-7.623	31.266	10.725	1.00	26.22	A
ATOM	468	CD1	LEU	A	60	-8.746	30.805	9.801	1.00	24.17	A
ATOM	469	CD2	LEU	A	60	-8.180	31.847	12.019	1.00	24.31	A
ATOM	470	C	LEU	A	60	-4.779	29.115	12.286	1.00	29.16	A
ATOM	471	O	LEU	A	60	-3.641	28.986	11.845	1.00	32.09	A
ATOM	472	N	ASP	A	61	-5.368	28.175	13.018	1.00	29.28	A
ATOM	473	CA	ASP	A	61	-4.671	26.922	13.270	1.00	28.69	A
ATOM	474	CB	ASP	A	61	-3.657	27.083	14.405	1.00	28.94	A
ATOM	475	CG	ASP	A	61	-4.299	27.127	15.758	1.00	29.26	A
ATOM	476	OD1	ASP	A	61	-5.301	27.846	15.918	1.00	27.31	A
ATOM	477	OD2	ASP	A	61	-3.787	26.441	16.667	1.00	31.08	A
ATOM	478	C	ASP	A	61	-5.643	25.787	13.559	1.00	29.17	A
ATOM	479	O	ASP	A	61	-6.858	25.992	13.548	1.00	27.94	A
ATOM	480	N	ASP	A	62	-5.108	24.589	13.798	1.00	29.43	A
ATOM	481	CA	ASP	A	62	-5.942	23.421	14.045	1.00	29.41	A
ATOM	482	CB	ASP	A	62	-5.076	22.183	14.248	1.00	31.28	A
ATOM	483	CG	ASP	A	62	-4.390	21.734	12.969	1.00	33.08	A
ATOM	484	OD1	ASP	A	62	-4.790	22.197	11.881	1.00	34.56	A
ATOM	485	OD2	ASP	A	62	-3.458	20.906	13.048	1.00	34.60	A
ATOM	486	C	ASP	A	62	-6.886	23.596	15.218	1.00	29.79	A
ATOM	487	O	ASP	A	62	-8.038	23.150	15.170	1.00	28.66	A
ATOM	488	N	HIS	A	63	-6.406	24.254	16.270	1.00	30.01	A
ATOM	489	CA	HIS	A	63	-7.243	24.489	17.439	1.00	28.48	A
ATOM	490	CB	HIS	A	63	-6.467	25.243	18.522	1.00	27.81	A
ATOM	491	CG	HIS	A	63	-5.590	24.369	19.364	1.00	27.96	A
ATOM	492	CD2	HIS	A	63	-4.291	24.492	19.726	1.00	28.21	A
ATOM	493	ND1	HIS	A	63	-6.050	23.223	19.978	1.00	28.22	A
ATOM	494	CE1	HIS	A	63	-5.074	22.679	20.683	1.00	27.18	A
ATOM	495	NE2	HIS	A	63	-3.995	23.430	20.548	1.00	27.95	A
ATOM	496	C	HIS	A	63	-8.455	25.302	17.002	1.00	27.92	A
ATOM	497	O	HIS	A	63	-9.592	24.957	17.320	1.00	27.51	A
ATOM	498	N	TYR	A	64	-8.197	26.373	16.255	1.00	26.59	A
ATOM	499	CA	TYR	A	64	-9.254	27.250	15.762	1.00	26.76	A
ATOM	500	CB	TYR	A	64	-8.664	28.374	14.926	1.00	27.48	A
ATOM	501	CG	TYR	A	64	-9.696	29.311	14.353	1.00	27.60	A
ATOM	502	CD1	TYR	A	64	-10.071	30.466	15.034	1.00	27.55	A
ATOM	503	CE1	TYR	A	64	-11.016	31.339	14.496	1.00	27.06	A
ATOM	504	CD2	TYR	A	64	-10.295	29.050	13.120	1.00	26.42	A
ATOM	505	CE2	TYR	A	64	-11.235	29.912	12.578	1.00	23.71	A
ATOM	506	CZ	TYR	A	64	-11.591	31.054	13.266	1.00	25.48	A
ATOM	507	OH	TYR	A	64	-12.506	31.929	12.723	1.00	25.27	A
ATOM	508	C	TYR	A	64	-10.248	26.501	14.908	1.00	26.86	A
ATOM	509	O	TYR	A	64	-11.457	26.660	15.059	1.00	28.70	A
ATOM	510	N	ARG	A	65	-9.728	25.690	13.995	1.00	27.66	A
ATOM	511	CA	ARG	A	65	-10.569	24.913	13.102	1.00	26.12	A
ATOM	512	CB	ARG	A	65	-9.725	24.308	11.976	1.00	26.62	A
ATOM	513	CG	ARG	A	65	-9.329	25.321	10.891	1.00	26.52	A
ATOM	514	CD	ARG	A	65	-8.442	24.697	9.813	1.00	26.10	A
ATOM	515	NE	ARG	A	65	-7.109	24.354	10.318	1.00	27.30	A
ATOM	516	CZ	ARG	A	65	-6.039	25.147	10.238	1.00	24.66	A
ATOM	517	NH1	ARG	A	65	-6.115	26.348	9.665	1.00	21.50	A
ATOM	518	NH2	ARG	A	65	-4.888	24.734	10.742	1.00	22.31	A
ATOM	519	C	ARG	A	65	-11.332	23.836	13.856	1.00	25.64	A
ATOM	520	O	ARG	A	65	-12.451	23.499	13.477	1.00	26.30	A
ATOM	521	N	ASP	A	66	-10.761	23.299	14.930	1.00	24.42	A
ATOM	522	CA	ASP	A	66	-11.492	22.275	15.681	1.00	24.46	A

ATOM	523	CB	ASP	A	66	-10.597	21.575	16.712	1.00	23.85	A
ATOM	524	CG	ASP	A	66	-9.485	20.774	16.083	1.00	25.84	A
ATOM	525	OD1	ASP	A	66	-9.698	20.167	15.004	1.00	25.70	A
ATOM	526	OD2	ASP	A	66	-8.391	20.742	16.687	1.00	27.11	A
ATOM	527	C	ASP	A	66	-12.682	22.906	16.418	1.00	24.60	A
ATOM	528	O	ASP	A	66	-13.796	22.369	16.407	1.00	21.84	A
ATOM	529	N	VAL	A	67	-12.440	24.050	17.061	1.00	24.10	A
ATOM	530	CA	VAL	A	67	-13.491	24.730	17.800	1.00	23.79	A
ATOM	531	CB	VAL	A	67	-12.917	25.914	18.609	1.00	23.45	A
ATOM	532	CG1	VAL	A	67	-14.029	26.669	19.318	1.00	23.00	A
ATOM	533	CG2	VAL	A	67	-11.937	25.393	19.642	1.00	22.92	A
ATOM	534	C	VAL	A	67	-14.582	25.198	16.835	1.00	24.88	A
ATOM	535	O	VAL	A	67	-15.770	25.205	17.181	1.00	23.91	A
ATOM	536	N	LEU	A	68	-14.189	25.563	15.617	1.00	23.59	A
ATOM	537	CA	LEU	A	68	-15.169	25.986	14.627	1.00	23.49	A
ATOM	538	CB	LEU	A	68	-14.473	26.458	13.353	1.00	21.94	A
ATOM	539	CG	LEU	A	68	-15.380	26.984	12.235	1.00	20.36	A
ATOM	540	CD1	LEU	A	68	-16.448	27.909	12.811	1.00	19.43	A
ATOM	541	CD2	LEU	A	68	-14.538	27.707	11.205	1.00	16.66	A
ATOM	542	C	LEU	A	68	-16.124	24.838	14.304	1.00	24.92	A
ATOM	543	O	LEU	A	68	-17.340	25.013	14.332	1.00	25.95	A
ATOM	544	N	LYS	A	69	-15.569	23.665	14.006	1.00	26.56	A
ATOM	545	CA	LYS	A	69	-16.368	22.474	13.694	1.00	26.77	A
ATOM	546	CB	LYS	A	69	-15.478	21.236	13.524	1.00	29.85	A
ATOM	547	CG	LYS	A	69	-14.385	21.327	12.469	1.00	32.96	A
ATOM	548	CD	LYS	A	69	-14.926	21.292	11.045	1.00	34.28	A
ATOM	549	CE	LYS	A	69	-13.778	21.100	10.065	1.00	36.95	A
ATOM	550	NZ	LYS	A	69	-12.983	19.864	10.383	1.00	37.55	A
ATOM	551	C	LYS	A	69	-17.353	22.180	14.812	1.00	25.30	A
ATOM	552	O	LYS	A	69	-18.527	21.935	14.563	1.00	27.26	A
ATOM	553	N	GLU	A	70	-16.873	22.171	16.047	1.00	23.99	A
ATOM	554	CA	GLU	A	70	-17.757	21.907	17.173	1.00	24.51	A
ATOM	555	CB	GLU	A	70	-16.997	22.029	18.484	1.00	24.64	A
ATOM	556	CG	GLU	A	70	-16.151	20.831	18.807	1.00	26.36	A
ATOM	557	CD	GLU	A	70	-15.114	21.135	19.857	1.00	30.72	A
ATOM	558	OE1	GLU	A	70	-15.442	21.849	20.836	1.00	32.61	A
ATOM	559	OE2	GLU	A	70	-13.968	20.655	19.704	1.00	33.72	A
ATOM	560	C	GLU	A	70	-18.938	22.867	17.178	1.00	24.19	A
ATOM	561	O	GLU	A	70	-20.081	22.451	17.323	1.00	25.03	A
ATOM	562	N	MET	A	71	-18.657	24.156	17.012	1.00	23.15	A
ATOM	563	CA	MET	A	71	-19.706	25.168	16.991	1.00	20.72	A
ATOM	564	CB	MET	A	71	-19.078	26.555	16.873	1.00	20.75	A
ATOM	565	CG	MET	A	71	-18.321	26.955	18.112	1.00	20.19	A
ATOM	566	SD	MET	A	71	-17.300	28.379	17.861	1.00	21.96	A
ATOM	567	CE	MET	A	71	-18.478	29.680	18.143	1.00	20.84	A
ATOM	568	C	MET	A	71	-20.717	24.939	15.865	1.00	19.94	A
ATOM	569	O	MET	A	71	-21.925	25.083	16.076	1.00	17.58	A
ATOM	570	N	LYS	A	72	-20.219	24.588	14.677	1.00	18.54	A
ATOM	571	CA	LYS	A	72	-21.084	24.313	13.535	1.00	18.46	A
ATOM	572	CB	LYS	A	72	-20.242	23.943	12.312	1.00	16.78	A
ATOM	573	CG	LYS	A	72	-19.195	24.987	11.928	1.00	19.38	A
ATOM	574	CD	LYS	A	72	-19.480	25.649	10.585	1.00	17.43	A
ATOM	575	CE	LYS	A	72	-19.248	24.693	9.425	1.00	17.36	A
ATOM	576	NZ	LYS	A	72	-19.618	25.272	8.106	1.00	15.81	A
ATOM	577	C	LYS	A	72	-22.028	23.149	13.884	1.00	19.87	A
ATOM	578	O	LYS	A	72	-23.245	23.231	13.697	1.00	19.65	A
ATOM	579	N	ALA	A	73	-21.464	22.068	14.409	1.00	19.56	A
ATOM	580	CA	ALA	A	73	-22.260	20.909	14.770	1.00	19.67	A
ATOM	581	CB	ALA	A	73	-21.409	19.916	15.535	1.00	18.41	A
ATOM	582	C	ALA	A	73	-23.484	21.294	15.591	1.00	19.58	A
ATOM	583	O	ALA	A	73	-24.578	20.790	15.357	1.00	21.27	A
ATOM	584	N	LYS	A	74	-23.315	22.187	16.554	1.00	19.32	A
ATOM	585	CA	LYS	A	74	-24.450	22.587	17.364	1.00	20.79	A
ATOM	586	CB	LYS	A	74	-23.970	23.286	18.627	1.00	21.44	A
ATOM	587	CG	LYS	A	74	-23.378	22.331	19.621	1.00	22.69	A
ATOM	588	CD	LYS	A	74	-22.897	23.057	20.850	1.00	28.67	A
ATOM	589	CE	LYS	A	74	-22.366	22.075	21.876	1.00	30.35	A
ATOM	590	NZ	LYS	A	74	-23.433	21.094	22.220	1.00	35.10	A
ATOM	591	C	LYS	A	74	-25.390	23.489	16.577	1.00	21.58	A
ATOM	592	O	LYS	A	74	-26.603	23.450	16.768	1.00	21.55	A
ATOM	593	N	ALA	A	75	-24.817	24.288	15.682	1.00	22.14	A
ATOM	594	CA	ALA	A	75	-25.581	25.194	14.838	1.00	22.08	A
ATOM	595	CB	ALA	A	75	-24.663	25.854	13.838	1.00	21.27	A
ATOM	596	C	ALA	A	75	-26.641	24.397	14.105	1.00	22.66	A
ATOM	597	O	ALA	A	75	-27.801	24.802	14.024	1.00	22.82	A

ATOM	598	N	SER	A	76	-26.213	23.257	13.573	1.00	23.53	A
ATOM	599	CA	SER	A	76	-27.065	22.346	12.826	1.00	24.00	A
ATOM	600	CB	SER	A	76	-26.319	21.042	12.593	1.00	23.90	A
ATOM	601	OG	SER	A	76	-25.153	21.293	11.833	1.00	28.66	A
ATOM	602	C	SER	A	76	-28.405	22.043	13.478	1.00	23.89	A
ATOM	603	O	SER	A	76	-29.420	21.889	12.785	1.00	25.73	A
ATOM	604	N	THR	A	77	-28.417	21.962	14.800	1.00	21.54	A
ATOM	605	CA	THR	A	77	-29.646	21.647	15.507	1.00	21.27	A
ATOM	606	CB	THR	A	77	-29.365	21.317	16.986	1.00	22.56	A
ATOM	607	OG1	THR	A	77	-28.957	22.508	17.673	1.00	26.12	A
ATOM	608	CG2	THR	A	77	-28.262	20.283	17.097	1.00	20.24	A
ATOM	609	C	THR	A	77	-30.670	22.777	15.442	1.00	21.51	A
ATOM	610	O	THR	A	77	-31.867	22.531	15.613	1.00	21.49	A
ATOM	611	N	VAL	A	78	-30.211	24.004	15.189	1.00	20.04	A
ATOM	612	CA	VAL	A	78	-31.114	25.157	15.121	1.00	20.54	A
ATOM	613	CB	VAL	A	78	-30.355	26.495	15.302	1.00	21.47	A
ATOM	614	CG1	VAL	A	78	-31.329	27.653	15.300	1.00	16.76	A
ATOM	615	CG2	VAL	A	78	-29.589	26.482	16.592	1.00	23.78	A
ATOM	616	C	VAL	A	78	-31.947	25.273	13.843	1.00	20.81	A
ATOM	617	O	VAL	A	78	-31.480	24.971	12.739	1.00	20.05	A
ATOM	618	N	LYS	A	79	-33.177	25.744	14.031	1.00	21.79	A
ATOM	619	CA	LYS	A	79	-34.164	25.945	12.978	1.00	23.69	A
ATOM	620	CB	LYS	A	79	-35.293	24.925	13.129	1.00	25.11	A
ATOM	621	CG	LYS	A	79	-36.490	25.176	12.233	1.00	29.95	A
ATOM	622	CD	LYS	A	79	-37.223	23.875	11.966	1.00	35.76	A
ATOM	623	CE	LYS	A	79	-38.067	23.926	10.691	1.00	38.47	A
ATOM	624	NZ	LYS	A	79	-38.372	22.523	10.215	1.00	42.10	A
ATOM	625	C	LYS	A	79	-34.727	27.347	13.162	1.00	24.37	A
ATOM	626	O	LYS	A	79	-35.556	27.570	14.041	1.00	26.03	A
ATOM	627	N	ALA	A	80	-34.296	28.285	12.326	1.00	24.24	A
ATOM	628	CA	ALA	A	80	-34.741	29.666	12.455	1.00	23.01	A
ATOM	629	CB	ALA	A	80	-33.555	30.594	12.283	1.00	21.97	A
ATOM	630	C	ALA	A	80	-35.868	30.092	11.522	1.00	24.50	A
ATOM	631	O	ALA	A	80	-35.835	29.832	10.310	1.00	23.36	A
ATOM	632	N	LYS	A	81	-36.857	30.767	12.104	1.00	24.89	A
ATOM	633	CA	LYS	A	81	-38.009	31.262	11.365	1.00	27.54	A
ATOM	634	CB	LYS	A	81	-39.227	31.361	12.295	1.00	30.88	A
ATOM	635	CG	LYS	A	81	-38.971	32.248	13.517	1.00	37.88	A
ATOM	636	CD	LYS	A	81	-40.226	32.590	14.333	1.00	41.11	A
ATOM	637	CE	LYS	A	81	-39.853	33.490	15.535	1.00	42.87	A
ATOM	638	NZ	LYS	A	81	-41.016	34.180	16.188	1.00	43.85	A
ATOM	639	C	LYS	A	81	-37.734	32.644	10.755	1.00	27.67	A
ATOM	640	O	LYS	A	81	-36.966	33.440	11.300	1.00	28.21	A
ATOM	641	N	LEU	A	82	-38.371	32.911	9.620	1.00	26.35	A
ATOM	642	CA	LEU	A	82	-38.253	34.186	8.924	1.00	24.81	A
ATOM	643	CB	LEU	A	82	-38.458	33.968	7.428	1.00	23.61	A
ATOM	644	CG	LEU	A	82	-38.436	35.149	6.462	1.00	24.67	A
ATOM	645	CD1	LEU	A	82	-37.071	35.821	6.442	1.00	24.02	A
ATOM	646	CD2	LEU	A	82	-38.785	34.632	5.077	1.00	24.20	A
ATOM	647	C	LEU	A	82	-39.361	35.074	9.478	1.00	24.82	A
ATOM	648	O	LEU	A	82	-40.518	34.700	9.427	1.00	27.00	A
ATOM	649	N	LEU	A	83	-39.016	36.241	10.004	1.00	24.92	A
ATOM	650	CA	LEU	A	83	-40.011	37.138	10.578	1.00	25.55	A
ATOM	651	CB	LEU	A	83	-39.330	38.173	11.489	1.00	23.63	A
ATOM	652	CG	LEU	A	83	-39.587	38.107	13.002	1.00	19.23	A
ATOM	653	CD1	LEU	A	83	-39.278	36.741	13.532	1.00	18.74	A
ATOM	654	CD2	LEU	A	83	-38.728	39.126	13.704	1.00	20.45	A
ATOM	655	C	LEU	A	83	-40.847	37.856	9.528	1.00	28.66	A
ATOM	656	O	LEU	A	83	-40.369	38.158	8.434	1.00	30.84	A
ATOM	657	N	SER	A	84	-42.103	38.126	9.866	1.00	30.12	A
ATOM	658	CA	SER	A	84	-43.011	38.827	8.964	1.00	32.61	A
ATOM	659	CB	SER	A	84	-44.453	38.627	9.416	1.00	33.13	A
ATOM	660	OG	SER	A	84	-44.662	39.206	10.697	1.00	33.77	A
ATOM	661	C	SER	A	84	-42.694	40.314	9.016	1.00	34.28	A
ATOM	662	O	SER	A	84	-42.112	40.786	9.993	1.00	33.96	A
ATOM	663	N	ILE	A	85	-43.078	41.057	7.980	1.00	35.70	A
ATOM	664	CA	ILE	A	85	-42.832	42.497	7.984	1.00	36.02	A
ATOM	665	CB	ILE	A	85	-43.462	43.209	6.772	1.00	34.58	A
ATOM	666	CG2	ILE	A	85	-43.442	44.706	6.990	1.00	34.25	A
ATOM	667	CG1	ILE	A	85	-42.671	42.899	5.512	1.00	34.16	A
ATOM	668	CD1	ILE	A	85	-43.145	43.676	4.313	1.00	34.84	A
ATOM	669	C	ILE	A	85	-43.446	43.093	9.244	1.00	36.56	A
ATOM	670	O	ILE	A	85	-42.841	43.935	9.907	1.00	36.34	A
ATOM	671	N	GLU	A	86	-44.652	42.647	9.575	1.00	37.70	A
ATOM	672	CA	GLU	A	86	-45.333	43.154	10.758	1.00	39.08	A

ATOM	673	CB	GLU	A	86	-46.701	42.479	10.913	1.00	42.68	A
ATOM	674	CG	GLU	A	86	-47.779	43.370	11.527	1.00	46.56	A
ATOM	675	CD	GLU	A	86	-48.580	42.685	12.635	1.00	49.84	A
ATOM	676	OE1	GLU	A	86	-49.649	43.228	13.004	1.00	51.23	A
ATOM	677	OE2	GLU	A	86	-48.142	41.621	13.143	1.00	50.49	A
ATOM	678	C	GLU	A	86	-44.482	42.912	12.009	1.00	37.72	A
ATOM	679	O	GLU	A	86	-44.223	43.844	12.772	1.00	37.11	A
ATOM	680	N	GLU	A	87	-44.036	41.669	12.200	1.00	35.93	A
ATOM	681	CA	GLU	A	87	-43.216	41.303	13.359	1.00	35.48	A
ATOM	682	CB	GLU	A	87	-42.843	39.823	13.306	1.00	36.48	A
ATOM	683	CG	GLU	A	87	-43.979	38.842	13.482	1.00	37.69	A
ATOM	684	CD	GLU	A	87	-43.535	37.415	13.185	1.00	42.19	A
ATOM	685	OE1	GLU	A	87	-43.163	37.144	12.020	1.00	42.44	A
ATOM	686	OE2	GLU	A	87	-43.542	36.566	14.110	1.00	44.47	A
ATOM	687	C	GLU	A	87	-41.930	42.120	13.486	1.00	34.16	A
ATOM	688	O	GLU	A	87	-41.608	42.606	14.567	1.00	35.48	A
ATOM	689	N	ALA	A	88	-41.191	42.255	12.387	1.00	32.39	A
ATOM	690	CA	ALA	A	88	-39.943	43.012	12.387	1.00	30.71	A
ATOM	691	CB	ALA	A	88	-39.259	42.884	11.044	1.00	28.57	A
ATOM	692	C	ALA	A	88	-40.244	44.474	12.681	1.00	30.41	A
ATOM	693	O	ALA	A	88	-39.480	45.168	13.360	1.00	28.74	A
ATOM	694	N	CYS	A	89	-41.369	44.932	12.153	1.00	30.18	A
ATOM	695	CA	CYS	A	89	-41.811	46.298	12.359	1.00	31.04	A
ATOM	696	CB	CYS	A	89	-43.074	46.560	11.535	1.00	30.20	A
ATOM	697	SG	CYS	A	89	-42.762	46.994	9.811	1.00	28.28	A
ATOM	698	C	CYS	A	89	-42.084	46.594	13.841	1.00	31.88	A
ATOM	699	O	CYS	A	89	-41.640	47.613	14.378	1.00	31.92	A
ATOM	700	N	LYS	A	90	-42.807	45.698	14.503	1.00	31.24	A
ATOM	701	CA	LYS	A	90	-43.133	45.895	15.906	1.00	33.01	A
ATOM	702	CB	LYS	A	90	-44.076	44.781	16.378	1.00	35.14	A
ATOM	703	CG	LYS	A	90	-44.578	44.963	17.803	1.00	40.06	A
ATOM	704	CD	LYS	A	90	-45.419	43.781	18.290	1.00	42.15	A
ATOM	705	CE	LYS	A	90	-45.987	44.054	19.686	1.00	42.47	A
ATOM	706	NZ	LYS	A	90	-46.637	42.848	20.274	1.00	43.09	A
ATOM	707	C	LYS	A	90	-41.878	45.939	16.786	1.00	32.57	A
ATOM	708	O	LYS	A	90	-41.931	46.365	17.943	1.00	32.32	A
ATOM	709	N	LEU	A	91	-40.750	45.504	16.230	1.00	32.04	A
ATOM	710	CA	LEU	A	91	-39.480	45.482	16.956	1.00	30.17	A
ATOM	711	CB	LEU	A	91	-38.591	44.360	16.423	1.00	27.88	A
ATOM	712	CG	LEU	A	91	-38.947	42.935	16.844	1.00	27.48	A
ATOM	713	CD1	LEU	A	91	-38.051	41.951	16.107	1.00	27.34	A
ATOM	714	CD2	LEU	A	91	-38.781	42.781	18.343	1.00	25.26	A
ATOM	715	C	LEU	A	91	-38.705	46.790	16.898	1.00	30.88	A
ATOM	716	O	LEU	A	91	-37.802	47.011	17.698	1.00	31.60	A
ATOM	717	N	THR	A	92	-39.056	47.661	15.960	1.00	31.92	A
ATOM	718	CA	THR	A	92	-38.353	48.927	15.808	1.00	31.87	A
ATOM	719	CB	THR	A	92	-38.715	49.565	14.477	1.00	32.70	A
ATOM	720	OG1	THR	A	92	-38.474	48.617	13.432	1.00	32.98	A
ATOM	721	CG2	THR	A	92	-37.878	50.822	14.235	1.00	33.69	A
ATOM	722	C	THR	A	92	-38.612	49.938	16.920	1.00	32.67	A
ATOM	723	O	THR	A	92	-39.756	50.285	17.209	1.00	33.90	A
ATOM	724	N	PRO	A	93	-37.542	50.427	17.568	1.00	33.00	A
ATOM	725	CD	PRO	A	93	-36.109	50.156	17.367	1.00	32.50	A
ATOM	726	CA	PRO	A	93	-37.739	51.402	18.638	1.00	31.98	A
ATOM	727	CB	PRO	A	93	-36.315	51.772	19.037	1.00	31.98	A
ATOM	728	CG	PRO	A	93	-35.530	50.564	18.688	1.00	30.77	A
ATOM	729	C	PRO	A	93	-38.488	52.589	18.063	1.00	32.38	A
ATOM	730	O	PRO	A	93	-38.240	52.997	16.927	1.00	29.90	A
ATOM	731	N	PRO	A	94	-39.423	53.152	18.838	1.00	35.04	A
ATOM	732	CD	PRO	A	94	-39.897	52.694	20.159	1.00	35.68	A
ATOM	733	CA	PRO	A	94	-40.204	54.302	18.382	1.00	34.87	A
ATOM	734	CB	PRO	A	94	-41.022	54.669	19.619	1.00	32.95	A
ATOM	735	CG	PRO	A	94	-41.268	53.336	20.245	1.00	33.44	A
ATOM	736	C	PRO	A	94	-39.324	55.451	17.903	1.00	35.46	A
ATOM	737	O	PRO	A	94	-39.690	56.176	16.985	1.00	36.99	A
ATOM	738	N	HIS	A	95	-38.153	55.606	18.503	1.00	35.13	A
ATOM	739	CA	HIS	A	95	-37.288	56.698	18.104	1.00	35.38	A
ATOM	740	CB	HIS	A	95	-36.866	57.466	19.343	1.00	37.72	A
ATOM	741	CG	HIS	A	95	-38.028	57.996	20.118	1.00	40.60	A
ATOM	742	CD2	HIS	A	95	-39.099	58.723	19.722	1.00	40.61	A
ATOM	743	ND1	HIS	A	95	-38.214	57.732	21.459	1.00	41.23	A
ATOM	744	CE1	HIS	A	95	-39.353	58.270	21.854	1.00	43.00	A
ATOM	745	NE2	HIS	A	95	-39.910	58.876	20.819	1.00	43.49	A
ATOM	746	C	HIS	A	95	-36.079	56.305	17.276	1.00	35.14	A
ATOM	747	O	HIS	A	95	-35.090	57.043	17.228	1.00	35.62	A

ATOM	748	N	SER	A	96	-36.163	55.152	16.612	1.00	33.35	A
ATOM	749	CA	SER	A	96	-35.075	54.684	15.760	1.00	31.83	A
ATOM	750	CB	SER	A	96	-35.444	53.332	15.138	1.00	31.44	A
ATOM	751	OG	SER	A	96	-34.325	52.715	14.513	1.00	29.56	A
ATOM	752	C	SER	A	96	-34.854	55.734	14.660	1.00	31.55	A
ATOM	753	O	SER	A	96	-35.779	56.451	14.279	1.00	31.55	A
ATOM	754	N	ALA	A	97	-33.634	55.832	14.150	1.00	29.95	A
ATOM	755	CA	ALA	A	97	-33.346	56.803	13.103	1.00	29.64	A
ATOM	756	CB	ALA	A	97	-31.880	56.722	12.712	1.00	29.80	A
ATOM	757	C	ALA	A	97	-34.222	56.594	11.876	1.00	30.37	A
ATOM	758	O	ALA	A	97	-34.410	55.471	11.410	1.00	30.66	A
ATOM	759	N	LYS	A	98	-34.759	57.684	11.348	1.00	32.14	A
ATOM	760	CA	LYS	A	98	-35.613	57.604	10.170	1.00	33.40	A
ATOM	761	CB	LYS	A	98	-36.351	58.924	9.953	1.00	33.53	A
ATOM	762	CG	LYS	A	98	-35.432	60.084	9.628	1.00	33.55	A
ATOM	763	CD	LYS	A	98	-36.203	61.313	9.195	1.00	34.24	A
ATOM	764	CE	LYS	A	98	-35.257	62.490	9.038	1.00	35.14	A
ATOM	765	NZ	LYS	A	98	-35.975	63.725	8.649	1.00	38.05	A
ATOM	766	C	LYS	A	98	-34.790	57.294	8.928	1.00	34.22	A
ATOM	767	O	LYS	A	98	-33.588	57.562	8.879	1.00	34.93	A
ATOM	768	N	SER	A	99	-35.456	56.734	7.925	1.00	34.32	A
ATOM	769	CA	SER	A	99	-34.828	56.377	6.659	1.00	34.74	A
ATOM	770	CB	SER	A	99	-35.700	55.353	5.922	1.00	36.68	A
ATOM	771	OG	SER	A	99	-35.444	55.349	4.528	1.00	36.43	A
ATOM	772	C	SER	A	99	-34.687	57.620	5.809	1.00	34.25	A
ATOM	773	O	SER	A	99	-35.385	58.600	6.029	1.00	36.14	A
ATOM	774	N	LYS	A	100	-33.785	57.595	4.842	1.00	34.35	A
ATOM	775	CA	LYS	A	100	-33.637	58.751	3.978	1.00	36.34	A
ATOM	776	CB	LYS	A	100	-32.196	58.874	3.462	1.00	36.39	A
ATOM	777	CG	LYS	A	100	-31.700	57.704	2.609	1.00	38.67	A
ATOM	778	CD	LYS	A	100	-30.162	57.745	2.414	1.00	40.23	A
ATOM	779	CE	LYS	A	100	-29.401	57.522	3.743	1.00	40.36	A
ATOM	780	NZ	LYS	A	100	-27.906	57.622	3.645	1.00	36.59	A
ATOM	781	C	LYS	A	100	-34.609	58.579	2.816	1.00	37.76	A
ATOM	782	O	LYS	A	100	-34.446	59.192	1.762	1.00	40.54	A
ATOM	783	N	PHE	A	101	-35.637	57.759	3.021	1.00	36.80	A
ATOM	784	CA	PHE	A	101	-36.609	57.499	1.970	1.00	35.94	A
ATOM	785	CB	PHE	A	101	-36.561	56.013	1.593	1.00	34.92	A
ATOM	786	CG	PHE	A	101	-35.221	55.577	1.059	1.00	33.00	A
ATOM	787	CD1	PHE	A	101	-34.806	55.953	-0.218	1.00	32.47	A
ATOM	788	CD2	PHE	A	101	-34.335	54.872	1.860	1.00	32.43	A
ATOM	789	CE1	PHE	A	101	-33.519	55.640	-0.688	1.00	31.12	A
ATOM	790	CE2	PHE	A	101	-33.045	54.556	1.398	1.00	33.48	A
ATOM	791	CZ	PHE	A	101	-32.638	54.946	0.118	1.00	30.18	A
ATOM	792	C	PHE	A	101	-38.037	57.942	2.296	1.00	37.42	A
ATOM	793	O	PHE	A	101	-39.018	57.307	1.876	1.00	37.52	A
ATOM	794	N	GLY	A	102	-38.143	59.037	3.044	1.00	37.25	A
ATOM	795	CA	GLY	A	102	-39.442	59.594	3.375	1.00	36.31	A
ATOM	796	C	GLY	A	102	-40.320	58.867	4.371	1.00	36.85	A
ATOM	797	O	GLY	A	102	-41.528	58.743	4.152	1.00	37.79	A
ATOM	798	N	TYR	A	103	-39.729	58.382	5.459	1.00	35.32	A
ATOM	799	CA	TYR	A	103	-40.496	57.698	6.497	1.00	34.07	A
ATOM	800	CB	TYR	A	103	-41.162	56.429	5.945	1.00	31.73	A
ATOM	801	CG	TYR	A	103	-40.227	55.295	5.603	1.00	33.19	A
ATOM	802	CD1	TYR	A	103	-39.907	54.313	6.547	1.00	32.09	A
ATOM	803	CE1	TYR	A	103	-39.075	53.242	6.215	1.00	32.85	A
ATOM	804	CD2	TYR	A	103	-39.685	55.179	4.323	1.00	33.12	A
ATOM	805	CE2	TYR	A	103	-38.853	54.113	3.982	1.00	32.70	A
ATOM	806	CZ	TYR	A	103	-38.555	53.147	4.926	1.00	33.36	A
ATOM	807	OH	TYR	A	103	-37.773	52.077	4.551	1.00	32.48	A
ATOM	808	C	TYR	A	103	-39.617	57.379	7.702	1.00	34.07	A
ATOM	809	O	TYR	A	103	-38.406	57.189	7.568	1.00	34.90	A
ATOM	810	N	GLY	A	104	-40.228	57.335	8.881	1.00	32.95	A
ATOM	811	CA	GLY	A	104	-39.462	57.067	10.078	1.00	33.76	A
ATOM	812	C	GLY	A	104	-39.934	55.929	10.954	1.00	35.25	A
ATOM	813	O	GLY	A	104	-40.867	55.188	10.627	1.00	34.62	A
ATOM	814	N	ALA	A	105	-39.265	55.802	12.090	1.00	36.66	A
ATOM	815	CA	ALA	A	105	-39.560	54.759	13.054	1.00	38.81	A
ATOM	816	CB	ALA	A	105	-38.790	55.020	14.338	1.00	39.38	A
ATOM	817	C	ALA	A	105	-41.048	54.661	13.346	1.00	39.83	A
ATOM	818	O	ALA	A	105	-41.616	53.568	13.360	1.00	39.19	A
ATOM	819	N	LYS	A	106	-41.673	55.811	13.576	1.00	41.70	A
ATOM	820	CA	LYS	A	106	-43.094	55.857	13.883	1.00	43.02	A
ATOM	821	CB	LYS	A	106	-43.537	57.301	14.130	1.00	46.46	A
ATOM	822	CG	LYS	A	106	-44.632	57.454	15.205	1.00	49.57	A

ATOM	823	CD	LYS	A	106	-44.061	57.426	16.640	1.00	52.36	A
ATOM	824	CE	LYS	A	106	-43.354	56.108	16.984	1.00	52.71	A
ATOM	825	NZ	LYS	A	106	-44.262	54.923	16.877	1.00	53.66	A
ATOM	826	C	LYS	A	106	-43.916	55.253	12.755	1.00	42.74	A
ATOM	827	O	LYS	A	106	-44.836	54.481	13.008	1.00	42.95	A
ATOM	828	N	ASP	A	107	-43.581	55.605	11.515	1.00	42.24	A
ATOM	829	CA	ASP	A	107	-44.287	55.085	10.343	1.00	41.44	A
ATOM	830	CB	ASP	A	107	-43.760	55.734	9.071	1.00	40.56	A
ATOM	831	CG	ASP	A	107	-43.878	57.219	9.100	1.00	39.40	A
ATOM	832	OD1	ASP	A	107	-45.002	57.710	9.326	1.00	41.41	A
ATOM	833	OD2	ASP	A	107	-42.851	57.892	8.899	1.00	38.82	A
ATOM	834	C	ASP	A	107	-44.127	53.579	10.207	1.00	42.14	A
ATOM	835	O	ASP	A	107	-45.069	52.877	9.849	1.00	41.75	A
ATOM	836	N	VAL	A	108	-42.916	53.095	10.469	1.00	41.54	A
ATOM	837	CA	VAL	A	108	-42.632	51.676	10.374	1.00	41.78	A
ATOM	838	CB	VAL	A	108	-41.128	51.389	10.614	1.00	42.58	A
ATOM	839	CG1	VAL	A	108	-40.915	49.895	10.848	1.00	43.27	A
ATOM	840	CG2	VAL	A	108	-40.306	51.846	9.419	1.00	41.20	A
ATOM	841	C	VAL	A	108	-43.450	50.885	11.390	1.00	42.34	A
ATOM	842	O	VAL	A	108	-44.091	49.890	11.045	1.00	41.78	A
ATOM	843	N	ARG	A	109	-43.417	51.327	12.645	1.00	42.82	A
ATOM	844	CA	ARG	A	109	-44.146	50.652	13.720	1.00	43.27	A
ATOM	845	CB	ARG	A	109	-43.895	51.349	15.058	1.00	43.05	A
ATOM	846	CG	ARG	A	109	-42.435	51.467	15.468	1.00	43.50	A
ATOM	847	CD	ARG	A	109	-42.324	52.112	16.841	1.00	43.01	A
ATOM	848	NE	ARG	A	109	-43.252	51.485	17.775	1.00	43.50	A
ATOM	849	CZ	ARG	A	109	-43.215	50.202	18.117	1.00	43.61	A
ATOM	850	NH1	ARG	A	109	-42.286	49.402	17.609	1.00	43.81	A
ATOM	851	NH2	ARG	A	109	-44.121	49.713	18.951	1.00	43.17	A
ATOM	852	C	ARG	A	109	-45.646	50.654	13.451	1.00	43.86	A
ATOM	853	O	ARG	A	109	-46.388	49.817	13.976	1.00	43.05	A
ATOM	854	N	ASN	A	110	-46.069	51.602	12.617	1.00	43.75	A
ATOM	855	CA	ASN	A	110	-47.467	51.789	12.262	1.00	42.60	A
ATOM	856	CB	ASN	A	110	-47.766	53.288	12.243	1.00	44.98	A
ATOM	857	CG	ASN	A	110	-49.249	53.592	12.231	1.00	48.82	A
ATOM	858	OD1	ASN	A	110	-49.906	53.535	11.185	1.00	51.35	A
ATOM	859	ND2	ASN	A	110	-49.791	53.916	13.405	1.00	50.84	A
ATOM	860	C	ASN	A	110	-47.843	51.159	10.922	1.00	41.43	A
ATOM	861	O	ASN	A	110	-48.869	51.494	10.342	1.00	42.35	A
ATOM	862	N	LEU	A	111	-47.013	50.252	10.424	1.00	38.99	A
ATOM	863	CA	LEU	A	111	-47.299	49.592	9.157	1.00	36.71	A
ATOM	864	CB	LEU	A	111	-48.313	48.472	9.380	1.00	35.08	A
ATOM	865	CG	LEU	A	111	-47.869	47.361	10.329	1.00	34.17	A
ATOM	866	CD1	LEU	A	111	-49.004	46.364	10.521	1.00	33.90	A
ATOM	867	CD2	LEU	A	111	-46.641	46.673	9.766	1.00	33.10	A
ATOM	868	C	LEU	A	111	-47.815	50.526	8.055	1.00	36.15	A
ATOM	869	O	LEU	A	111	-48.620	50.116	7.215	1.00	36.53	A
ATOM	870	N	SER	A	112	-47.361	51.774	8.054	1.00	35.00	A
ATOM	871	CA	SER	A	112	-47.791	52.712	7.026	1.00	36.02	A
ATOM	872	CB	SER	A	112	-47.137	54.082	7.227	1.00	35.83	A
ATOM	873	OG	SER	A	112	-46.009	54.250	6.384	1.00	36.32	A
ATOM	874	C	SER	A	112	-47.403	52.162	5.652	1.00	36.79	A
ATOM	875	O	SER	A	112	-46.399	51.463	5.506	1.00	36.81	A
ATOM	876	N	SER	A	113	-48.198	52.497	4.644	1.00	37.80	A
ATOM	877	CA	SER	A	113	-47.956	52.029	3.290	1.00	38.94	A
ATOM	878	CB	SER	A	113	-49.030	52.560	2.347	1.00	40.76	A
ATOM	879	OG	SER	A	113	-48.722	52.203	1.008	1.00	43.46	A
ATOM	880	C	SER	A	113	-46.590	52.369	2.713	1.00	39.07	A
ATOM	881	O	SER	A	113	-45.868	51.481	2.267	1.00	39.61	A
ATOM	882	N	ARG	A	114	-46.222	53.642	2.701	1.00	38.94	A
ATOM	883	CA	ARG	A	114	-44.931	53.978	2.130	1.00	39.04	A
ATOM	884	CB	ARG	A	114	-44.619	55.470	2.284	1.00	39.68	A
ATOM	885	CG	ARG	A	114	-43.222	55.831	1.766	1.00	42.99	A
ATOM	886	CD	ARG	A	114	-43.033	57.325	1.637	1.00	45.26	A
ATOM	887	NE	ARG	A	114	-43.954	57.861	0.646	1.00	48.75	A
ATOM	888	CZ	ARG	A	114	-44.283	59.141	0.545	1.00	50.53	A
ATOM	889	NH1	ARG	A	114	-43.759	60.030	1.386	1.00	49.26	A
ATOM	890	NH2	ARG	A	114	-45.149	59.524	-0.390	1.00	51.01	A
ATOM	891	C	ARG	A	114	-43.801	53.150	2.740	1.00	38.11	A
ATOM	892	O	ARG	A	114	-43.031	52.509	2.016	1.00	37.95	A
ATOM	893	N	ALA	A	115	-43.709	53.152	4.068	1.00	35.93	A
ATOM	894	CA	ALA	A	115	-42.649	52.416	4.751	1.00	34.90	A
ATOM	895	CB	ALA	A	115	-42.828	52.512	6.260	1.00	35.12	A
ATOM	896	C	ALA	A	115	-42.629	50.962	4.316	1.00	33.83	A
ATOM	897	O	ALA	A	115	-41.602	50.450	3.878	1.00	33.14	A

ATOM	898	N	VAL	A	116	-43.776	50.308	4.429	1.00	32.94	A
ATOM	899	CA	VAL	A	116	-43.894	48.917	4.051	1.00	32.46	A
ATOM	900	CB	VAL	A	116	-45.348	48.419	4.210	1.00	31.28	A
ATOM	901	CG1	VAL	A	116	-45.463	46.972	3.734	1.00	29.34	A
ATOM	902	CG2	VAL	A	116	-45.768	48.522	5.672	1.00	29.84	A
ATOM	903	C	VAL	A	116	-43.422	48.654	2.626	1.00	34.03	A
ATOM	904	O	VAL	A	116	-42.695	47.697	2.385	1.00	36.17	A
ATOM	905	N	ASN	A	117	-43.816	49.500	1.683	1.00	35.42	A
ATOM	906	CA	ASN	A	117	-43.409	49.309	0.291	1.00	36.15	A
ATOM	907	CB	ASN	A	117	-44.029	50.379	-0.604	1.00	37.94	A
ATOM	908	CG	ASN	A	117	-45.543	50.298	-0.631	1.00	40.65	A
ATOM	909	OD1	ASN	A	117	-46.120	49.232	-0.880	1.00	39.87	A
ATOM	910	ND2	ASN	A	117	-46.199	51.426	-0.372	1.00	43.63	A
ATOM	911	C	ASN	A	117	-41.903	49.317	0.110	1.00	35.91	A
ATOM	912	O	ASN	A	117	-41.352	48.437	-0.565	1.00	35.19	A
ATOM	913	N	HIS	A	118	-41.240	50.311	0.708	1.00	35.63	A
ATOM	914	CA	HIS	A	118	-39.787	50.417	0.605	1.00	34.43	A
ATOM	915	CB	HIS	A	118	-39.277	51.716	1.247	1.00	37.10	A
ATOM	916	CG	HIS	A	118	-39.674	52.951	0.492	1.00	42.08	A
ATOM	917	CD2	HIS	A	118	-38.927	53.897	-0.129	1.00	42.46	A
ATOM	918	ND1	HIS	A	118	-40.991	53.323	0.308	1.00	43.19	A
ATOM	919	CE1	HIS	A	118	-41.038	54.444	-0.391	1.00	42.28	A
ATOM	920	NE2	HIS	A	118	-39.799	54.814	-0.669	1.00	42.29	A
ATOM	921	C	HIS	A	118	-39.142	49.197	1.245	1.00	31.66	A
ATOM	922	O	HIS	A	118	-38.214	48.627	0.683	1.00	30.10	A
ATOM	923	N	ILE	A	119	-39.637	48.778	2.404	1.00	29.04	A
ATOM	924	CA	ILE	A	119	-39.079	47.595	3.037	1.00	28.93	A
ATOM	925	CB	ILE	A	119	-39.865	47.230	4.320	1.00	27.00	A
ATOM	926	CG2	ILE	A	119	-39.439	45.861	4.839	1.00	25.16	A
ATOM	927	CG1	ILE	A	119	-39.600	48.291	5.386	1.00	25.24	A
ATOM	928	CD1	ILE	A	119	-40.433	48.138	6.626	1.00	26.35	A
ATOM	929	C	ILE	A	119	-39.144	46.442	2.014	1.00	29.82	A
ATOM	930	O	ILE	A	119	-38.127	45.799	1.707	1.00	29.90	A
ATOM	931	N	ARG	A	120	-40.341	46.208	1.482	1.00	27.58	A
ATOM	932	CA	ARG	A	120	-40.565	45.170	0.490	1.00	25.30	A
ATOM	933	CB	ARG	A	120	-41.941	45.341	-0.157	1.00	29.62	A
ATOM	934	CG	ARG	A	120	-43.128	45.275	0.788	1.00	33.34	A
ATOM	935	CD	ARG	A	120	-43.715	43.884	0.859	1.00	37.58	A
ATOM	936	NE	ARG	A	120	-44.914	43.865	1.691	1.00	42.17	A
ATOM	937	CZ	ARG	A	120	-46.049	44.486	1.382	1.00	44.51	A
ATOM	938	NH1	ARG	A	120	-46.142	45.176	0.248	1.00	43.28	A
ATOM	939	NH2	ARG	A	120	-47.090	44.424	2.214	1.00	46.13	A
ATOM	940	C	ARG	A	120	-39.510	45.230	-0.602	1.00	21.85	A
ATOM	941	O	ARG	A	120	-38.962	44.209	-0.997	1.00	19.85	A
ATOM	942	N	SER	A	121	-39.229	46.426	-1.099	1.00	19.79	A
ATOM	943	CA	SER	A	121	-38.244	46.551	-2.162	1.00	19.61	A
ATOM	944	CB	SER	A	121	-38.384	47.897	-2.875	1.00	18.15	A
ATOM	945	OG	SER	A	121	-38.369	48.954	-1.955	1.00	19.48	A
ATOM	946	C	SER	A	121	-36.819	46.351	-1.686	1.00	18.65	A
ATOM	947	O	SER	A	121	-36.033	45.714	-2.385	1.00	18.56	A
ATOM	948	N	VAL	A	122	-36.492	46.888	-0.507	1.00	18.75	A
ATOM	949	CA	VAL	A	122	-35.159	46.751	0.091	1.00	17.67	A
ATOM	950	CB	VAL	A	122	-35.098	47.421	1.485	1.00	16.10	A
ATOM	951	CG1	VAL	A	122	-33.926	46.901	2.287	1.00	15.96	A
ATOM	952	CG2	VAL	A	122	-34.950	48.906	1.328	1.00	14.82	A
ATOM	953	C	VAL	A	122	-34.889	45.262	0.237	1.00	19.33	A
ATOM	954	O	VAL	A	122	-33.774	44.777	-0.014	1.00	19.36	A
ATOM	955	N	TRP	A	123	-35.934	44.546	0.634	1.00	19.96	A
ATOM	956	CA	TRP	A	123	-35.869	43.107	0.800	1.00	21.21	A
ATOM	957	CB	TRP	A	123	-37.148	42.594	1.458	1.00	19.40	A
ATOM	958	CG	TRP	A	123	-37.152	41.107	1.674	1.00	21.18	A
ATOM	959	CD2	TRP	A	123	-36.528	40.387	2.754	1.00	21.52	A
ATOM	960	CE2	TRP	A	123	-36.791	39.020	2.551	1.00	20.07	A
ATOM	961	CE3	TRP	A	123	-35.772	40.768	3.871	1.00	22.11	A
ATOM	962	CD1	TRP	A	123	-37.742	40.166	0.884	1.00	20.88	A
ATOM	963	NE1	TRP	A	123	-37.532	38.910	1.403	1.00	19.95	A
ATOM	964	CZ2	TRP	A	123	-36.325	38.034	3.424	1.00	18.71	A
ATOM	965	CZ3	TRP	A	123	-35.313	39.785	4.731	1.00	20.47	A
ATOM	966	CH2	TRP	A	123	-35.592	38.436	4.502	1.00	18.34	A
ATOM	967	C	TRP	A	123	-35.694	42.432	-0.549	1.00	22.27	A
ATOM	968	O	TRP	A	123	-34.837	41.568	-0.713	1.00	24.97	A
ATOM	969	N	GLU	A	124	-36.507	42.828	-1.519	1.00	22.95	A
ATOM	970	CA	GLU	A	124	-36.426	42.233	-2.837	1.00	23.55	A
ATOM	971	CB	GLU	A	124	-37.532	42.782	-3.735	1.00	26.58	A
ATOM	972	CG	GLU	A	124	-37.680	42.015	-5.030	1.00	34.18	A

ATOM	973	CD	GLU	A	124	-37.612	40.500	-4.808	1.00	40.55	A
ATOM	974	OE1	GLU	A	124	-38.081	40.036	-3.733	1.00	42.33	A
ATOM	975	OE2	GLU	A	124	-37.102	39.779	-5.707	1.00	39.96	A
ATOM	976	C	GLU	A	124	-35.065	42.487	-3.465	1.00	22.76	A
ATOM	977	O	GLU	A	124	-34.637	41.748	-4.355	1.00	21.61	A
ATOM	978	N	ASP	A	125	-34.385	43.534	-3.003	1.00	22.66	A
ATOM	979	CA	ASP	A	125	-33.059	43.861	-3.525	1.00	22.10	A
ATOM	980	CB	ASP	A	125	-32.704	45.322	-3.259	1.00	21.10	A
ATOM	981	CG	ASP	A	125	-31.282	45.663	-3.691	1.00	23.56	A
ATOM	982	OD1	ASP	A	125	-31.057	45.924	-4.894	1.00	23.33	A
ATOM	983	OD2	ASP	A	125	-30.377	45.659	-2.827	1.00	21.51	A
ATOM	984	C	ASP	A	125	-32.020	42.961	-2.871	1.00	21.91	A
ATOM	985	O	ASP	A	125	-31.017	42.617	-3.484	1.00	22.59	A
ATOM	986	N	LEU	A	126	-32.251	42.585	-1.619	1.00	20.90	A
ATOM	987	CA	LEU	A	126	-31.316	41.706	-0.945	1.00	20.32	A
ATOM	988	CB	LEU	A	126	-31.664	41.589	0.535	1.00	20.58	A
ATOM	989	CG	LEU	A	126	-31.164	42.775	1.363	1.00	23.65	A
ATOM	990	CD1	LEU	A	126	-31.607	42.633	2.820	1.00	20.13	A
ATOM	991	CD2	LEU	A	126	-29.633	42.847	1.241	1.00	22.83	A
ATOM	992	C	LEU	A	126	-31.357	40.332	-1.596	1.00	21.28	A
ATOM	993	O	LEU	A	126	-30.363	39.611	-1.605	1.00	21.03	A
ATOM	994	N	LEU	A	127	-32.509	39.973	-2.152	1.00	21.36	A
ATOM	995	CA	LEU	A	127	-32.648	38.673	-2.785	1.00	21.89	A
ATOM	996	CB	LEU	A	127	-34.121	38.258	-2.831	1.00	22.00	A
ATOM	997	CG	LEU	A	127	-34.849	38.086	-1.492	1.00	22.67	A
ATOM	998	CD1	LEU	A	127	-36.261	37.600	-1.758	1.00	19.25	A
ATOM	999	CD2	LEU	A	127	-34.110	37.089	-0.597	1.00	21.70	A
ATOM	1000	C	LEU	A	127	-32.062	38.665	-4.188	1.00	22.20	A
ATOM	1001	O	LEU	A	127	-31.638	37.625	-4.675	1.00	21.61	A
ATOM	1002	N	GLU	A	128	-32.016	39.827	-4.830	1.00	23.96	A
ATOM	1003	CA	GLU	A	128	-31.488	39.915	-6.188	1.00	24.77	A
ATOM	1004	CB	GLU	A	128	-32.407	40.774	-7.041	1.00	26.89	A
ATOM	1005	CG	GLU	A	128	-33.632	40.012	-7.480	1.00	30.91	A
ATOM	1006	CD	GLU	A	128	-34.794	40.913	-7.766	1.00	33.51	A
ATOM	1007	OE1	GLU	A	128	-35.920	40.383	-7.879	1.00	37.55	A
ATOM	1008	OE2	GLU	A	128	-34.589	42.140	-7.878	1.00	34.24	A
ATOM	1009	C	GLU	A	128	-30.068	40.405	-6.335	1.00	23.60	A
ATOM	1010	O	GLU	A	128	-29.356	39.955	-7.225	1.00	22.24	A
ATOM	1011	N	ASP	A	129	-29.658	41.332	-5.477	1.00	24.26	A
ATOM	1012	CA	ASP	A	129	-28.301	41.859	-5.534	1.00	24.15	A
ATOM	1013	CB	ASP	A	129	-28.292	43.371	-5.284	1.00	21.02	A
ATOM	1014	CG	ASP	A	129	-27.040	44.049	-5.833	1.00	21.86	A
ATOM	1015	OD1	ASP	A	129	-25.951	43.444	-5.784	1.00	20.89	A
ATOM	1016	OD2	ASP	A	129	-27.134	45.201	-6.307	1.00	20.78	A
ATOM	1017	C	ASP	A	129	-27.505	41.144	-4.449	1.00	25.05	A
ATOM	1018	O	ASP	A	129	-27.753	41.337	-3.259	1.00	28.08	A
ATOM	1019	N	THR	A	130	-26.554	40.313	-4.852	1.00	23.48	A
ATOM	1020	CA	THR	A	130	-25.758	39.586	-3.883	1.00	23.17	A
ATOM	1021	CB	THR	A	130	-25.570	38.137	-4.321	1.00	22.94	A
ATOM	1022	OG1	THR	A	130	-24.862	38.103	-5.566	1.00	19.06	A
ATOM	1023	CG2	THR	A	130	-26.918	37.451	-4.470	1.00	20.81	A
ATOM	1024	C	THR	A	130	-24.383	40.199	-3.682	1.00	25.30	A
ATOM	1025	O	THR	A	130	-23.576	39.665	-2.912	1.00	25.65	A
ATOM	1026	N	GLU	A	131	-24.131	41.332	-4.341	1.00	26.43	A
ATOM	1027	CA	GLU	A	131	-22.828	41.988	-4.275	1.00	28.31	A
ATOM	1028	CB	GLU	A	131	-22.153	41.931	-5.639	1.00	31.86	A
ATOM	1029	CG	GLU	A	131	-21.715	40.574	-6.101	1.00	40.78	A
ATOM	1030	CD	GLU	A	131	-21.058	40.646	-7.480	1.00	45.86	A
ATOM	1031	OE1	GLU	A	131	-20.506	41.730	-7.814	1.00	47.10	A
ATOM	1032	OE2	GLU	A	131	-21.083	39.627	-8.216	1.00	46.06	A
ATOM	1033	C	GLU	A	131	-22.714	43.430	-3.807	1.00	27.49	A
ATOM	1034	O	GLU	A	131	-22.033	43.700	-2.831	1.00	28.85	A
ATOM	1035	N	THR	A	132	-23.334	44.350	-4.543	1.00	25.95	A
ATOM	1036	CA	THR	A	132	-23.259	45.787	-4.255	1.00	24.94	A
ATOM	1037	CB	THR	A	132	-24.450	46.566	-4.887	1.00	27.56	A
ATOM	1038	OG1	THR	A	132	-24.775	46.008	-6.172	1.00	29.48	A
ATOM	1039	CG2	THR	A	132	-24.078	48.044	-5.058	1.00	24.37	A
ATOM	1040	C	THR	A	132	-23.192	46.167	-2.783	1.00	23.31	A
ATOM	1041	O	THR	A	132	-24.111	45.874	-2.014	1.00	21.90	A
ATOM	1042	N	PRO	A	133	-22.093	46.830	-2.370	1.00	21.76	A
ATOM	1043	CD	PRO	A	133	-20.851	47.068	-3.123	1.00	20.73	A
ATOM	1044	CA	PRO	A	133	-21.929	47.247	-0.974	1.00	20.88	A
ATOM	1045	CB	PRO	A	133	-20.648	48.061	-1.010	1.00	19.74	A
ATOM	1046	CG	PRO	A	133	-19.838	47.296	-2.010	1.00	19.97	A
ATOM	1047	C	PRO	A	133	-23.121	48.061	-0.557	1.00	20.07	A

ATOM	1048	O	PRO	A	133	-23.700	48.768	-1.375	1.00	21.24	A
ATOM	1049	N	ILE	A	134	-23.506	47.943	0.704	1.00	19.30	A
ATOM	1050	CA	ILE	A	134	-24.652	48.680	1.202	1.00	19.97	A
ATOM	1051	CB	ILE	A	134	-25.559	47.749	2.025	1.00	19.62	A
ATOM	1052	CG2	ILE	A	134	-26.443	48.553	2.968	1.00	15.99	A
ATOM	1053	CG1	ILE	A	134	-26.361	46.857	1.067	1.00	17.54	A
ATOM	1054	CD1	ILE	A	134	-27.157	45.760	1.757	1.00	16.52	A
ATOM	1055	C	ILE	A	134	-24.218	49.892	2.025	1.00	22.38	A
ATOM	1056	O	ILE	A	134	-23.377	49.787	2.920	1.00	24.22	A
ATOM	1057	N	ASP	A	135	-24.790	51.047	1.713	1.00	22.75	A
ATOM	1058	CA	ASP	A	135	-24.437	52.262	2.414	1.00	24.16	A
ATOM	1059	CB	ASP	A	135	-25.152	53.452	1.784	1.00	25.54	A
ATOM	1060	CG	ASP	A	135	-24.740	54.769	2.410	1.00	30.13	A
ATOM	1061	OD1	ASP	A	135	-23.569	55.179	2.224	1.00	31.12	A
ATOM	1062	OD2	ASP	A	135	-25.582	55.387	3.098	1.00	32.19	A
ATOM	1063	C	ASP	A	135	-24.730	52.243	3.914	1.00	24.94	A
ATOM	1064	O	ASP	A	135	-25.746	51.702	4.373	1.00	26.54	A
ATOM	1065	N	THR	A	136	-23.822	52.844	4.674	1.00	24.33	A
ATOM	1066	CA	THR	A	136	-23.971	52.959	6.118	1.00	23.72	A
ATOM	1067	CB	THR	A	136	-23.043	51.998	6.888	1.00	23.71	A
ATOM	1068	OG1	THR	A	136	-21.678	52.387	6.688	1.00	22.16	A
ATOM	1069	CG2	THR	A	136	-23.244	50.566	6.416	1.00	23.96	A
ATOM	1070	C	THR	A	136	-23.593	54.381	6.508	1.00	23.79	A
ATOM	1071	O	THR	A	136	-22.777	55.020	5.851	1.00	22.97	A
ATOM	1072	N	THR	A	137	-24.209	54.881	7.570	1.00	24.68	A
ATOM	1073	CA	THR	A	137	-23.910	56.212	8.056	1.00	24.57	A
ATOM	1074	CB	THR	A	137	-25.168	56.933	8.545	1.00	22.50	A
ATOM	1075	OG1	THR	A	137	-26.060	57.118	7.444	1.00	23.76	A
ATOM	1076	CG2	THR	A	137	-24.815	58.284	9.135	1.00	18.57	A
ATOM	1077	C	THR	A	137	-22.986	56.013	9.234	1.00	26.65	A
ATOM	1078	O	THR	A	137	-23.115	55.020	9.958	1.00	29.93	A
ATOM	1079	N	ILE	A	138	-22.044	56.935	9.414	1.00	27.18	A
ATOM	1080	CA	ILE	A	138	-21.116	56.856	10.533	1.00	27.14	A
ATOM	1081	CB	ILE	A	138	-19.648	56.730	10.050	1.00	26.97	A
ATOM	1082	CG2	ILE	A	138	-19.291	57.893	9.119	1.00	26.51	A
ATOM	1083	CG1	ILE	A	138	-18.712	56.646	11.260	1.00	24.63	A
ATOM	1084	CD1	ILE	A	138	-17.291	56.265	10.908	1.00	21.59	A
ATOM	1085	C	ILE	A	138	-21.297	58.113	11.364	1.00	27.54	A
ATOM	1086	O	ILE	A	138	-21.298	59.220	10.832	1.00	28.31	A
ATOM	1087	N	MET	A	139	-21.470	57.925	12.670	1.00	28.59	A
ATOM	1088	CA	MET	A	139	-21.692	59.025	13.605	1.00	28.15	A
ATOM	1089	CB	MET	A	139	-23.156	59.056	14.036	1.00	26.73	A
ATOM	1090	CG	MET	A	139	-24.098	59.408	12.926	1.00	28.86	A
ATOM	1091	SD	MET	A	139	-23.772	61.087	12.414	1.00	33.49	A
ATOM	1092	CE	MET	A	139	-25.180	61.939	13.197	1.00	33.60	A
ATOM	1093	C	MET	A	139	-20.842	58.920	14.848	1.00	28.45	A
ATOM	1094	O	MET	A	139	-20.371	57.843	15.205	1.00	28.67	A
ATOM	1095	N	ALA	A	140	-20.649	60.059	15.504	1.00	30.37	A
ATOM	1096	CA	ALA	A	140	-19.895	60.108	16.750	1.00	29.12	A
ATOM	1097	CB	ALA	A	140	-19.283	61.486	16.954	1.00	27.19	A
ATOM	1098	C	ALA	A	140	-20.961	59.836	17.799	1.00	28.71	A
ATOM	1099	O	ALA	A	140	-22.028	60.451	17.786	1.00	27.94	A
ATOM	1100	N	LYS	A	141	-20.684	58.893	18.686	1.00	29.52	A
ATOM	1101	CA	LYS	A	141	-21.628	58.531	19.727	1.00	29.51	A
ATOM	1102	CB	LYS	A	141	-21.308	57.132	20.224	1.00	31.62	A
ATOM	1103	CG	LYS	A	141	-22.402	56.483	21.021	1.00	36.98	A
ATOM	1104	CD	LYS	A	141	-22.015	55.046	21.324	1.00	40.07	A
ATOM	1105	CE	LYS	A	141	-23.181	54.229	21.854	1.00	41.29	A
ATOM	1106	NZ	LYS	A	141	-22.771	52.790	21.920	1.00	43.54	A
ATOM	1107	C	LYS	A	141	-21.526	59.532	20.865	1.00	28.49	A
ATOM	1108	O	LYS	A	141	-20.452	60.077	21.134	1.00	29.35	A
ATOM	1109	N	SER	A	142	-22.646	59.792	21.524	1.00	27.44	A
ATOM	1110	CA	SER	A	142	-22.656	60.735	22.640	1.00	25.00	A
ATOM	1111	CB	SER	A	142	-23.775	61.752	22.464	1.00	23.32	A
ATOM	1112	OG	SER	A	142	-23.695	62.743	23.463	1.00	20.94	A
ATOM	1113	C	SER	A	142	-22.849	59.997	23.963	1.00	23.81	A
ATOM	1114	O	SER	A	142	-23.963	59.597	24.304	1.00	22.39	A
ATOM	1115	N	GLU	A	143	-21.756	59.817	24.697	1.00	22.68	A
ATOM	1116	CA	GLU	A	143	-21.796	59.128	25.981	1.00	23.49	A
ATOM	1117	CB	GLU	A	143	-21.038	57.790	25.911	1.00	23.96	A
ATOM	1118	CG	GLU	A	143	-21.549	56.834	24.852	1.00	26.42	A
ATOM	1119	CD	GLU	A	143	-20.697	55.576	24.733	1.00	29.47	A
ATOM	1120	OE1	GLU	A	143	-19.453	55.691	24.815	1.00	29.37	A
ATOM	1121	OE2	GLU	A	143	-21.270	54.478	24.539	1.00	30.45	A
ATOM	1122	C	GLU	A	143	-21.179	60.000	27.067	1.00	22.57	A

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ATOM   1123  O   GLU A 143     -20.187  60.694  26.834  1.00 22.40      A
ATOM   1124  N   VAL A 144     -21.778  59.951  28.251  1.00 22.30      A
ATOM   1125  CA  VAL A 144     -21.321  60.721  29.404  1.00 21.56      A
ATOM   1126  CB  VAL A 144     -22.527  61.095  30.292  1.00 21.34      A
ATOM   1127  CG1 VAL A 144     -22.065  61.558  31.664  1.00 19.76      A
ATOM   1128  CG2 VAL A 144     -23.355  62.176  29.596  1.00 18.44      A
ATOM   1129  C   VAL A 144     -20.289  59.959  30.242  1.00 23.13      A
ATOM   1130  O   VAL A 144     -20.334  58.728  30.360  1.00 23.49      A
ATOM   1131  N   PHE A 145     -19.353  60.701  30.821  1.00 24.08      A
ATOM   1132  CA  PHE A 145     -18.310  60.110  31.651  1.00 24.18      A
ATOM   1133  CB  PHE A 145     -17.128  59.666  30.792  1.00 22.21      A
ATOM   1134  CG  PHE A 145     -17.410  58.477  29.947  1.00 23.19      A
ATOM   1135  CD1 PHE A 145     -17.478  57.209  30.517  1.00 24.75      A
ATOM   1136  CD2 PHE A 145     -17.618  58.614  28.577  1.00 23.51      A
ATOM   1137  CE1 PHE A 145     -17.750  56.079  29.737  1.00 23.47      A
ATOM   1138  CE2 PHE A 145     -17.892  57.495  27.783  1.00 24.56      A
ATOM   1139  CZ  PHE A 145     -17.957  56.222  28.372  1.00 24.07      A
ATOM   1140  C   PHE A 145     -17.816  61.149  32.635  1.00 26.17      A
ATOM   1141  O   PHE A 145     -18.229  62.311  32.578  1.00 26.64      A
ATOM   1142  N   CYS A 146     -16.933  60.717  33.535  1.00 27.24      A
ATOM   1143  CA  CYS A 146     -16.315  61.596  34.514  1.00 28.11      A
ATOM   1144  CB  CYS A 146     -16.424  60.996  35.917  1.00 27.48      A
ATOM   1145  SG  CYS A 146     -15.423  61.833  37.193  1.00 29.19      A
ATOM   1146  C   CYS A 146     -14.844  61.729  34.106  1.00 30.64      A
ATOM   1147  O   CYS A 146     -14.213  60.743  33.704  1.00 29.54      A
ATOM   1148  N   VAL A 147     -14.304  62.945  34.191  1.00 32.77      A
ATOM   1149  CA  VAL A 147     -12.908  63.189  33.834  1.00 34.90      A
ATOM   1150  CB  VAL A 147     -12.488  64.617  34.173  1.00 32.55      A
ATOM   1151  CG1 VAL A 147     -13.353  65.594  33.428  1.00 33.18      A
ATOM   1152  CG2 VAL A 147     -12.594  64.841  35.662  1.00 33.03      A
ATOM   1153  C   VAL A 147     -12.010  62.244  34.616  1.00 38.16      A
ATOM   1154  O   VAL A 147     -12.442  61.633  35.585  1.00 38.21      A
ATOM   1155  N   GLN A 148     -10.751  62.140  34.216  1.00 42.78      A
ATOM   1156  CA  GLN A 148      -9.837  61.251  34.909  1.00 47.81      A
ATOM   1157  CB  GLN A 148      -9.425  60.121  33.964  1.00 49.27      A
ATOM   1158  CG  GLN A 148     -10.595  59.233  33.544  1.00 52.21      A
ATOM   1159  CD  GLN A 148     -10.354  58.492  32.230  1.00 53.77      A
ATOM   1160  OE1 GLN A 148     -10.122  59.110  31.180  1.00 53.91      A
ATOM   1161  NE2 GLN A 148     -10.417  57.161  32.282  1.00 53.67      A
ATOM   1162  C   GLN A 148      -8.601  61.975  35.442  1.00 50.58      A
ATOM   1163  O   GLN A 148      -8.388  63.157  35.165  1.00 50.10      A
ATOM   1164  N   PRO A 149      -7.799  61.285  36.271  1.00 53.59      A
ATOM   1165  CD  PRO A 149      -8.145  60.068  37.032  1.00 54.30      A
ATOM   1166  CA  PRO A 149      -6.585  61.908  36.812  1.00 53.83      A
ATOM   1167  CB  PRO A 149      -6.174  60.949  37.933  1.00 54.39      A
ATOM   1168  CG  PRO A 149      -7.489  60.340  38.366  1.00 54.35      A
ATOM   1169  C   PRO A 149      -5.538  61.965  35.688  1.00 54.07      A
ATOM   1170  O   PRO A 149      -5.354  63.066  35.118  1.00 53.03      A
ATOM   1171  OXT PRO A 149      -4.948  60.899  35.373  1.00 53.42      A
ATOM   1172  CB  ARG A 154     -11.414  63.640  27.933  1.00 43.41      A
ATOM   1173  CG  ARG A 154     -11.690  64.742  28.917  1.00 46.45      A
ATOM   1174  CD  ARG A 154     -12.550  65.810  28.291  1.00 48.79      A
ATOM   1175  NE  ARG A 154     -12.889  66.845  29.260  1.00 52.69      A
ATOM   1176  CZ  ARG A 154     -13.783  67.803  29.041  1.00 55.35      A
ATOM   1177  NH1 ARG A 154     -14.432  67.857  27.881  1.00 56.90      A
ATOM   1178  NH2 ARG A 154     -14.030  68.708  29.980  1.00 55.64      A
ATOM   1179  C   ARG A 154     -10.902  61.264  27.533  1.00 42.32      A
ATOM   1180  O   ARG A 154      -9.863  61.027  26.921  1.00 43.90      A
ATOM   1181  N   ARG A 154      -9.632  62.534  29.275  1.00 43.26      A
ATOM   1182  CA  ARG A 154     -10.951  62.346  28.590  1.00 43.80      A
ATOM   1183  N   LYS A 155     -12.032  60.604  27.324  1.00 40.07      A
ATOM   1184  CA  LYS A 155     -12.114  59.547  26.331  1.00 38.41      A
ATOM   1185  CB  LYS A 155     -13.054  58.441  26.807  1.00 38.58      A
ATOM   1186  CG  LYS A 155     -12.668  57.822  28.130  1.00 41.40      A
ATOM   1187  CD  LYS A 155     -13.634  56.719  28.536  1.00 40.79      A
ATOM   1188  CE  LYS A 155     -13.181  56.070  29.828  1.00 42.38      A
ATOM   1189  NZ  LYS A 155     -14.184  55.122  30.380  1.00 44.32      A
ATOM   1190  C   LYS A 155     -12.658  60.113  25.028  1.00 36.50      A
ATOM   1191  O   LYS A 155     -13.514  60.994  25.038  1.00 37.12      A
ATOM   1192  N   PRO A 156     -12.147  59.635  23.885  1.00 33.82      A
ATOM   1193  CD  PRO A 156     -10.959  58.784  23.717  1.00 31.39      A
ATOM   1194  CA  PRO A 156     -12.631  60.119  22.588  1.00 31.56      A
ATOM   1195  CB  PRO A 156     -11.527  59.693  21.638  1.00 30.79      A
ATOM   1196  CG  PRO A 156     -11.041  58.432  22.263  1.00 31.79      A
ATOM   1197  C   PRO A 156     -13.949  59.409  22.295  1.00 30.68      A
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ATOM   1198  O   PRO A 156     -14.155  58.280  22.748  1.00 31.27      A
ATOM   1199  N   ALA A 157     -14.843  60.052  21.555  1.00 28.16      A
ATOM   1200  CA  ALA A 157     -16.125  59.427  21.245  1.00 27.22      A
ATOM   1201  CB  ALA A 157     -16.971  60.360  20.404  1.00 26.16      A
ATOM   1202  C   ALA A 157     -15.966  58.101  20.514  1.00 27.38      A
ATOM   1203  O   ALA A 157     -15.037  57.929  19.725  1.00 27.57      A
ATOM   1204  N   ARG A 158     -16.859  57.152  20.793  1.00 28.59      A
ATOM   1205  CA  ARG A 158     -16.823  55.874  20.089  1.00 28.54      A
ATOM   1206  CB  ARG A 158     -17.479  54.739  20.919  1.00 30.11      A
ATOM   1207  CG  ARG A 158     -16.525  54.100  21.967  1.00 33.90      A
ATOM   1208  CD  ARG A 158     -16.807  52.602  22.305  1.00 35.97      A
ATOM   1209  NE  ARG A 158     -15.582  51.889  22.737  1.00 40.58      A
ATOM   1210  CZ  ARG A 158     -15.469  50.564  22.899  1.00 40.24      A
ATOM   1211  NH1 ARG A 158     -16.510  49.770  22.674  1.00 43.76      A
ATOM   1212  NH2 ARG A 158     -14.313  50.021  23.264  1.00 33.72      A
ATOM   1213  C   ARG A 158     -17.601  56.161  18.794  1.00 27.37      A
ATOM   1214  O   ARG A 158     -18.424  57.084  18.755  1.00 26.66      A
ATOM   1215  N   LEU A 159     -17.320  55.407  17.735  1.00 25.20      A
ATOM   1216  CA  LEU A 159     -17.985  55.614  16.446  1.00 24.37      A
ATOM   1217  CB  LEU A 159     -16.951  55.552  15.311  1.00 23.96      A
ATOM   1218  CG  LEU A 159     -15.890  56.636  15.044  1.00 22.89      A
ATOM   1219  CD1 LEU A 159     -15.968  57.803  16.011  1.00 21.45      A
ATOM   1220  CD2 LEU A 159     -14.544  55.980  15.114  1.00 22.38      A
ATOM   1221  C   LEU A 159     -19.081  54.592  16.142  1.00 24.03      A
ATOM   1222  O   LEU A 159     -18.823  53.392  16.150  1.00 26.49      A
ATOM   1223  N   ILE A 160     -20.296  55.041  15.855  1.00 22.60      A
ATOM   1224  CA  ILE A 160     -21.345  54.084  15.526  1.00 22.31      A
ATOM   1225  CB  ILE A 160     -22.646  54.423  16.226  1.00 24.16      A
ATOM   1226  CG2 ILE A 160     -22.411  54.460  17.726  1.00 26.81      A
ATOM   1227  CG1 ILE A 160     -23.142  55.792  15.776  1.00 25.27      A
ATOM   1228  CD1 ILE A 160     -24.429  56.211  16.450  1.00 26.78      A
ATOM   1229  C   ILE A 160     -21.567  54.048  14.023  1.00 22.70      A
ATOM   1230  O   ILE A 160     -21.489  55.074  13.346  1.00 22.33      A
ATOM   1231  N   VAL A 161     -21.835  52.858  13.500  1.00 23.25      A
ATOM   1232  CA  VAL A 161     -22.049  52.672  12.065  1.00 22.59      A
ATOM   1233  CB  VAL A 161     -20.838  51.958  11.438  1.00 19.60      A
ATOM   1234  CG1 VAL A 161     -21.086  51.684   9.970  1.00 17.94      A
ATOM   1235  CG2 VAL A 161     -19.603  52.804  11.626  1.00 17.16      A
ATOM   1236  C   VAL A 161     -23.306  51.841  11.822  1.00 24.58      A
ATOM   1237  O   VAL A 161     -23.418  50.711  12.315  1.00 24.95      A
ATOM   1238  N   PHE A 162     -24.245  52.385  11.052  1.00 24.90      A
ATOM   1239  CA  PHE A 162     -25.497  51.667  10.790  1.00 25.56      A
ATOM   1240  CB  PHE A 162     -26.551  52.055  11.832  1.00 22.77      A
ATOM   1241  CG  PHE A 162     -26.751  53.544  11.959  1.00 21.05      A
ATOM   1242  CD1 PHE A 162     -25.846  54.328  12.684  1.00 19.85      A
ATOM   1243  CD2 PHE A 162     -27.820  54.170  11.326  1.00 19.03      A
ATOM   1244  CE1 PHE A 162     -26.002  55.706  12.773  1.00 16.56      A
ATOM   1245  CE2 PHE A 162     -27.985  55.550  11.410  1.00 17.23      A
ATOM   1246  CZ  PHE A 162     -27.071  56.317  12.137  1.00 17.59      A
ATOM   1247  C   PHE A 162     -26.064  51.945   9.407  1.00 26.39      A
ATOM   1248  O   PHE A 162     -25.812  53.008   8.830  1.00 29.15      A
ATOM   1249  N   PRO A 163     -26.835  50.988   8.854  1.00 25.80      A
ATOM   1250  CD  PRO A 163     -26.993  49.614   9.360  1.00 26.10      A
ATOM   1251  CA  PRO A 163     -27.456  51.112   7.536  1.00 25.31      A
ATOM   1252  CB  PRO A 163     -27.657  49.666   7.116  1.00 26.42      A
ATOM   1253  CG  PRO A 163     -28.022  49.028   8.397  1.00 25.90      A
ATOM   1254  C   PRO A 163     -28.771  51.824   7.723  1.00 25.11      A
ATOM   1255  O   PRO A 163     -29.144  52.146   8.846  1.00 24.14      A
ATOM   1256  N   ASP A 164     -29.476  52.039   6.619  1.00 26.17      A
ATOM   1257  CA  ASP A 164     -30.755  52.728   6.621  1.00 25.56      A
ATOM   1258  CB  ASP A 164     -31.159  53.018   5.186  1.00 26.80      A
ATOM   1259  CG  ASP A 164     -32.405  53.846   5.096  1.00 29.33      A
ATOM   1260  OD1 ASP A 164     -32.317  55.073   5.323  1.00 28.83      A
ATOM   1261  OD2 ASP A 164     -33.474  53.262   4.808  1.00 33.07      A
ATOM   1262  C   ASP A 164     -31.845  51.914   7.312  1.00 27.28      A
ATOM   1263  O   ASP A 164     -31.817  50.683   7.287  1.00 27.46      A
ATOM   1264  N   LEU A 165     -32.807  52.600   7.928  1.00 27.63      A
ATOM   1265  CA  LEU A 165     -33.890  51.918   8.622  1.00 27.87      A
ATOM   1266  CB  LEU A 165     -34.981  52.912   9.031  1.00 29.29      A
ATOM   1267  CG  LEU A 165     -36.286  52.265   9.532  1.00 30.74      A
ATOM   1268  CD1 LEU A 165     -36.019  51.414  10.766  1.00 31.54      A
ATOM   1269  CD2 LEU A 165     -37.304  53.346   9.845  1.00 32.77      A
ATOM   1270  C   LEU A 165     -34.515  50.802   7.789  1.00 28.33      A
ATOM   1271  O   LEU A 165     -34.915  49.767   8.333  1.00 27.82      A
ATOM   1272  N   GLY A 166     -34.625  51.016   6.477  1.00 27.62      A
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ATOM   1273  CA  GLY A 166     -35.199  49.992   5.619  1.00 26.21      A
ATOM   1274  C   GLY A 166     -34.441  48.677   5.740  1.00 25.32      A
ATOM   1275  O   GLY A 166     -35.036  47.608   5.870  1.00 25.12      A
ATOM   1276  N   VAL A 167     -33.115  48.762   5.707  1.00 24.03      A
ATOM   1277  CA  VAL A 167     -32.262  47.589   5.821  1.00 21.35      A
ATOM   1278  CB  VAL A 167     -30.785  47.974   5.564  1.00 19.66      A
ATOM   1279  CG1 VAL A 167     -29.858  46.918   6.100  1.00 18.23      A
ATOM   1280  CG2 VAL A 167     -30.551  48.142   4.069  1.00 17.45      A
ATOM   1281  C   VAL A 167     -32.408  46.937   7.195  1.00 21.23      A
ATOM   1282  O   VAL A 167     -32.515  45.716   7.317  1.00 20.64      A
ATOM   1283  N   ARG A 168     -32.431  47.752   8.235  1.00 21.79      A
ATOM   1284  CA  ARG A 168     -32.561  47.215   9.578  1.00 23.32      A
ATOM   1285  CB  ARG A 168     -32.531  48.354  10.593  1.00 21.24      A
ATOM   1286  CG  ARG A 168     -31.262  49.186  10.482  1.00 19.07      A
ATOM   1287  CD  ARG A 168     -30.970  49.947  11.751  1.00 17.59      A
ATOM   1288  NE  ARG A 168     -31.954  50.983  12.031  1.00 18.26      A
ATOM   1289  CZ  ARG A 168     -31.958  52.196  11.479  1.00 18.07      A
ATOM   1290  NH1 ARG A 168     -31.030  52.547  10.598  1.00 16.79      A
ATOM   1291  NH2 ARG A 168     -32.880  53.078  11.836  1.00 16.52      A
ATOM   1292  C   ARG A 168     -33.818  46.356   9.741  1.00 24.76      A
ATOM   1293  O   ARG A 168     -33.769  45.288  10.363  1.00 26.94      A
ATOM   1294  N   VAL A 169     -34.940  46.791   9.179  1.00 24.26      A
ATOM   1295  CA  VAL A 169     -36.160  45.984   9.282  1.00 22.63      A
ATOM   1296  CB  VAL A 169     -37.398  46.729   8.697  1.00 21.09      A
ATOM   1297  CG1 VAL A 169     -38.649  45.874   8.842  1.00 17.46      A
ATOM   1298  CG2 VAL A 169     -37.594  48.047   9.423  1.00 16.34      A
ATOM   1299  C   VAL A 169     -35.948  44.652   8.544  1.00 22.44      A
ATOM   1300  O   VAL A 169     -36.374  43.599   9.014  1.00 20.97      A
ATOM   1301  N   CYS A 170     -35.276  44.692   7.397  1.00 22.93      A
ATOM   1302  CA  CYS A 170     -35.012  43.457   6.659  1.00 24.13      A
ATOM   1303  CB  CYS A 170     -34.411  43.763   5.286  1.00 22.90      A
ATOM   1304  SG  CYS A 170     -35.490  44.689   4.183  1.00 24.89      A
ATOM   1305  C   CYS A 170     -34.066  42.532   7.451  1.00 24.98      A
ATOM   1306  O   CYS A 170     -34.223  41.307   7.427  1.00 24.19      A
ATOM   1307  N   GLU A 171     -33.084  43.108   8.146  1.00 24.51      A
ATOM   1308  CA  GLU A 171     -32.166  42.299   8.936  1.00 23.98      A
ATOM   1309  CB  GLU A 171     -31.188  43.165   9.730  1.00 23.58      A
ATOM   1310  CG  GLU A 171     -30.057  43.827   8.983  1.00 23.56      A
ATOM   1311  CD  GLU A 171     -29.151  44.603   9.939  1.00 25.19      A
ATOM   1312  OE1 GLU A 171     -28.313  43.983  10.630  1.00 22.37      A
ATOM   1313  OE2 GLU A 171     -29.295  45.842  10.015  1.00 28.18      A
ATOM   1314  C   GLU A 171     -32.991  41.506   9.944  1.00 25.58      A
ATOM   1315  O   GLU A 171     -32.820  40.294  10.089  1.00 26.06      A
ATOM   1316  N   LYS A 172     -33.876  42.206  10.655  1.00 25.75      A
ATOM   1317  CA  LYS A 172     -34.710  41.572  11.669  1.00 26.46      A
ATOM   1318  CB  LYS A 172     -35.680  42.584  12.277  1.00 26.33      A
ATOM   1319  CG  LYS A 172     -35.037  43.630  13.144  1.00 27.62      A
ATOM   1320  CD  LYS A 172     -36.021  44.746  13.472  1.00 27.67      A
ATOM   1321  CE  LYS A 172     -35.391  45.809  14.371  1.00 27.65      A
ATOM   1322  NZ  LYS A 172     -34.100  46.317  13.835  1.00 25.85      A
ATOM   1323  C   LYS A 172     -35.499  40.397  11.108  1.00 27.58      A
ATOM   1324  O   LYS A 172     -35.604  39.348  11.758  1.00 28.63      A
ATOM   1325  N   MET A 173     -36.063  40.575   9.912  1.00 26.13      A
ATOM   1326  CA  MET A 173     -36.846  39.520   9.272  1.00 25.91      A
ATOM   1327  CB  MET A 173     -37.461  40.022   7.964  1.00 26.68      A
ATOM   1328  CG  MET A 173     -38.674  40.902   8.153  1.00 28.71      A
ATOM   1329  SD  MET A 173     -39.362  41.443   6.600  1.00 29.74      A
ATOM   1330  CE  MET A 173     -38.339  42.852   6.282  1.00 29.27      A
ATOM   1331  C   MET A 173     -36.021  38.277   8.971  1.00 24.60      A
ATOM   1332  O   MET A 173     -36.483  37.153   9.139  1.00 24.56      A
ATOM   1333  N   ALA A 174     -34.790  38.490   8.538  1.00 22.02      A
ATOM   1334  CA  ALA A 174     -33.929  37.391   8.180  1.00 20.40      A
ATOM   1335  CB  ALA A 174     -33.078  37.809   6.988  1.00 19.25      A
ATOM   1336  C   ALA A 174     -33.035  36.853   9.301  1.00 20.29      A
ATOM   1337  O   ALA A 174     -32.631  35.692   9.259  1.00 18.93      A
ATOM   1338  N   LEU A 175     -32.755  37.665  10.315  1.00 19.46      A
ATOM   1339  CA  LEU A 175     -31.843  37.218  11.350  1.00 20.95      A
ATOM   1340  CB  LEU A 175     -30.491  37.890  11.112  1.00 22.21      A
ATOM   1341  CG  LEU A 175     -29.576  37.304  10.038  1.00 22.26      A
ATOM   1342  CD1 LEU A 175     -28.543  38.330   9.617  1.00 21.83      A
ATOM   1343  CD2 LEU A 175     -28.908  36.069  10.594  1.00 22.36      A
ATOM   1344  C   LEU A 175     -32.213  37.367  12.823  1.00 22.27      A
ATOM   1345  O   LEU A 175     -31.504  36.847  13.690  1.00 22.53      A
ATOM   1346  N   TYR A 176     -33.292  38.077  13.124  1.00 22.05      A
ATOM   1347  CA  TYR A 176     -33.681  38.259  14.519  1.00 21.16      A
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ATOM	1348	CB	TYR	A	176	-35.021	39.000	14.614	1.00	22.30	A
ATOM	1349	CG	TYR	A	176	-35.469	39.232	16.046	1.00	24.78	A
ATOM	1350	CD1	TYR	A	176	-34.862	40.209	16.842	1.00	24.42	A
ATOM	1351	CE1	TYR	A	176	-35.225	40.375	18.174	1.00	26.42	A
ATOM	1352	CD2	TYR	A	176	-36.457	38.428	16.629	1.00	24.98	A
ATOM	1353	CE2	TYR	A	176	-36.821	38.584	17.963	1.00	23.86	A
ATOM	1354	CZ	TYR	A	176	-36.204	39.557	18.725	1.00	26.82	A
ATOM	1355	OH	TYR	A	176	-36.565	39.715	20.042	1.00	30.26	A
ATOM	1356	C	TYR	A	176	-33.783	36.925	15.260	1.00	19.07	A
ATOM	1357	O	TYR	A	176	-33.284	36.770	16.362	1.00	17.71	A
ATOM	1358	N	ASP	A	177	-34.431	35.954	14.647	1.00	20.35	A
ATOM	1359	CA	ASP	A	177	-34.575	34.654	15.285	1.00	22.47	A
ATOM	1360	CB	ASP	A	177	-35.522	33.766	14.477	1.00	22.99	A
ATOM	1361	CG	ASP	A	177	-36.184	32.739	15.328	1.00	22.27	A
ATOM	1362	OD1	ASP	A	177	-36.700	33.133	16.390	1.00	27.52	A
ATOM	1363	OD2	ASP	A	177	-36.190	31.555	14.952	1.00	25.70	A
ATOM	1364	C	ASP	A	177	-33.218	33.968	15.422	1.00	22.97	A
ATOM	1365	O	ASP	A	177	-32.905	33.372	16.458	1.00	20.84	A
ATOM	1366	N	VAL	A	178	-32.416	34.052	14.366	1.00	22.92	A
ATOM	1367	CA	VAL	A	178	-31.103	33.441	14.402	1.00	23.34	A
ATOM	1368	CB	VAL	A	178	-30.333	33.650	13.079	1.00	22.41	A
ATOM	1369	CG1	VAL	A	178	-28.922	33.089	13.204	1.00	19.34	A
ATOM	1370	CG2	VAL	A	178	-31.067	32.960	11.939	1.00	21.50	A
ATOM	1371	C	VAL	A	178	-30.268	33.999	15.545	1.00	23.93	A
ATOM	1372	O	VAL	A	178	-29.709	33.235	16.331	1.00	26.40	A
ATOM	1373	N	VAL	A	179	-30.186	35.321	15.650	1.00	22.60	A
ATOM	1374	CA	VAL	A	179	-29.384	35.924	16.701	1.00	22.36	A
ATOM	1375	CB	VAL	A	179	-29.087	37.400	16.415	1.00	22.94	A
ATOM	1376	CG1	VAL	A	179	-28.549	37.554	15.017	1.00	23.13	A
ATOM	1377	CG2	VAL	A	179	-30.341	38.237	16.624	1.00	26.45	A
ATOM	1378	C	VAL	A	179	-30.002	35.831	18.086	1.00	21.74	A
ATOM	1379	O	VAL	A	179	-29.328	36.101	19.074	1.00	22.51	A
ATOM	1380	N	SER	A	180	-31.268	35.442	18.165	1.00	21.24	A
ATOM	1381	CA	SER	A	180	-31.942	35.330	19.459	1.00	22.67	A
ATOM	1382	CB	SER	A	180	-33.416	35.698	19.321	1.00	20.96	A
ATOM	1383	OG	SER	A	180	-33.574	37.081	19.067	1.00	21.26	A
ATOM	1384	C	SER	A	180	-31.851	33.930	20.041	1.00	24.42	A
ATOM	1385	O	SER	A	180	-31.910	33.738	21.253	1.00	27.02	A
ATOM	1386	N	THR	A	181	-31.680	32.955	19.162	1.00	25.25	A
ATOM	1387	CA	THR	A	181	-31.635	31.569	19.553	1.00	24.17	A
ATOM	1388	CB	THR	A	181	-32.786	30.864	18.872	1.00	25.53	A
ATOM	1389	OG1	THR	A	181	-34.001	31.470	19.324	1.00	29.37	A
ATOM	1390	CG2	THR	A	181	-32.796	29.390	19.180	1.00	25.47	A
ATOM	1391	C	THR	A	181	-30.340	30.820	19.276	1.00	24.87	A
ATOM	1392	O	THR	A	181	-30.015	29.873	19.994	1.00	27.20	A
ATOM	1393	N	LEU	A	182	-29.581	31.231	18.268	1.00	22.37	A
ATOM	1394	CA	LEU	A	182	-28.355	30.510	17.960	1.00	21.21	A
ATOM	1395	CB	LEU	A	182	-27.887	30.858	16.546	1.00	19.93	A
ATOM	1396	CG	LEU	A	182	-26.744	29.982	16.041	1.00	19.20	A
ATOM	1397	CD1	LEU	A	182	-26.826	29.822	14.555	1.00	22.27	A
ATOM	1398	CD2	LEU	A	182	-25.440	30.596	16.426	1.00	19.98	A
ATOM	1399	C	LEU	A	182	-27.189	30.626	18.947	1.00	20.68	A
ATOM	1400	O	LEU	A	182	-26.511	29.641	19.216	1.00	20.62	A
ATOM	1401	N	PRO	A	183	-26.927	31.821	19.494	1.00	21.65	A
ATOM	1402	CD	PRO	A	183	-27.585	33.126	19.311	1.00	21.59	A
ATOM	1403	CA	PRO	A	183	-25.804	31.915	20.443	1.00	23.69	A
ATOM	1404	CB	PRO	A	183	-25.921	33.339	20.981	1.00	22.05	A
ATOM	1405	CG	PRO	A	183	-26.536	34.088	19.824	1.00	23.37	A
ATOM	1406	C	PRO	A	183	-25.908	30.863	21.563	1.00	25.87	A
ATOM	1407	O	PRO	A	183	-24.926	30.192	21.905	1.00	26.52	A
ATOM	1408	N	GLN	A	184	-27.108	30.733	22.119	1.00	25.85	A
ATOM	1409	CA	GLN	A	184	-27.391	29.782	23.179	1.00	27.12	A
ATOM	1410	CB	GLN	A	184	-28.846	29.929	23.593	1.00	31.68	A
ATOM	1411	CG	GLN	A	184	-29.410	28.739	24.373	1.00	35.60	A
ATOM	1412	CD	GLN	A	184	-28.845	28.656	25.766	1.00	36.34	A
ATOM	1413	OE1	GLN	A	184	-28.798	29.658	26.475	1.00	39.25	A
ATOM	1414	NE2	GLN	A	184	-28.424	27.463	26.175	1.00	37.72	A
ATOM	1415	C	GLN	A	184	-27.145	28.334	22.756	1.00	26.73	A
ATOM	1416	O	GLN	A	184	-26.376	27.598	23.382	1.00	27.78	A
ATOM	1417	N	ALA	A	185	-27.824	27.925	21.696	1.00	25.04	A
ATOM	1418	CA	ALA	A	185	-27.705	26.574	21.199	1.00	24.18	A
ATOM	1419	CB	ALA	A	185	-28.528	26.416	19.930	1.00	23.28	A
ATOM	1420	C	ALA	A	185	-26.255	26.226	20.932	1.00	24.59	A
ATOM	1421	O	ALA	A	185	-25.845	25.078	21.103	1.00	25.68	A
ATOM	1422	N	VAL	A	186	-25.469	27.217	20.527	1.00	24.61	A

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ATOM   1423  CA  VAL A 186     -24.064  26.959  20.229  1.00 25.01      A
ATOM   1424  CB  VAL A 186     -23.510  27.941  19.170  1.00 22.30      A
ATOM   1425  CG1 VAL A 186     -22.041  27.659  18.933  1.00 18.57      A
ATOM   1426  CG2 VAL A 186     -24.273  27.800  17.879  1.00 21.63      A
ATOM   1427  C   VAL A 186     -23.113  26.989  21.422  1.00 26.03      A
ATOM   1428  O   VAL A 186     -22.376  26.033  21.645  1.00 26.37      A
ATOM   1429  N   MET A 187     -23.126  28.075  22.187  1.00 26.31      A
ATOM   1430  CA  MET A 187     -22.203  28.202  23.311  1.00 27.29      A
ATOM   1431  CB  MET A 187     -21.841  29.671  23.506  1.00 27.68      A
ATOM   1432  CG  MET A 187     -21.085  30.247  22.337  1.00 27.84      A
ATOM   1433  SD  MET A 187     -20.989  32.022  22.413  1.00 30.44      A
ATOM   1434  CE  MET A 187     -22.450  32.439  21.479  1.00 29.46      A
ATOM   1435  C   MET A 187     -22.661  27.610  24.632  1.00 27.41      A
ATOM   1436  O   MET A 187     -21.887  27.549  25.594  1.00 27.54      A
ATOM   1437  N   GLY A 188     -23.909  27.161  24.687  1.00 26.39      A
ATOM   1438  CA  GLY A 188     -24.398  26.588  25.925  1.00 24.64      A
ATOM   1439  C   GLY A 188     -24.302  27.604  27.042  1.00 23.87      A
ATOM   1440  O   GLY A 188     -24.407  28.809  26.809  1.00 23.88      A
ATOM   1441  N   SER A 189     -24.067  27.125  28.255  1.00 22.71      A
ATOM   1442  CA  SER A 189     -23.994  28.010  29.413  1.00 23.04      A
ATOM   1443  CB  SER A 189     -23.839  27.190  30.689  1.00 19.78      A
ATOM   1444  OG  SER A 189     -22.542  26.648  30.757  1.00 24.72      A
ATOM   1445  C   SER A 189     -22.914  29.089  29.373  1.00 22.94      A
ATOM   1446  O   SER A 189     -22.864  29.933  30.268  1.00 24.37      A
ATOM   1447  N   SER A 190     -22.047  29.074  28.363  1.00 22.57      A
ATOM   1448  CA  SER A 190     -21.011  30.101  28.294  1.00 21.98      A
ATOM   1449  CB  SER A 190     -19.832  29.631  27.441  1.00 22.34      A
ATOM   1450  OG  SER A 190     -19.088  28.622  28.100  1.00 22.32      A
ATOM   1451  C   SER A 190     -21.572  31.411  27.741  1.00 22.14      A
ATOM   1452  O   SER A 190     -20.971  32.462  27.906  1.00 21.68      A
ATOM   1453  N   TYR A 191     -22.737  31.348  27.103  1.00 22.57      A
ATOM   1454  CA  TYR A 191     -23.368  32.538  26.540  1.00 22.37      A
ATOM   1455  CB  TYR A 191     -24.459  32.135  25.563  1.00 22.65      A
ATOM   1456  CG  TYR A 191     -25.205  33.288  24.938  1.00 23.53      A
ATOM   1457  CD1 TYR A 191     -24.541  34.252  24.175  1.00 23.33      A
ATOM   1458  CE1 TYR A 191     -25.241  35.286  23.561  1.00 22.48      A
ATOM   1459  CD2 TYR A 191     -26.585  33.392  25.073  1.00 22.37      A
ATOM   1460  CE2 TYR A 191     -27.286  34.417  24.464  1.00 22.82      A
ATOM   1461  CZ  TYR A 191     -26.613  35.355  23.711  1.00 23.37      A
ATOM   1462  OH  TYR A 191     -27.334  36.352  23.093  1.00 26.35      A
ATOM   1463  C   TYR A 191     -23.968  33.386  27.645  1.00 23.83      A
ATOM   1464  O   TYR A 191     -25.053  33.083  28.153  1.00 24.40      A
ATOM   1465  N   GLY A 192     -23.269  34.469  27.981  1.00 24.06      A
ATOM   1466  CA  GLY A 192     -23.696  35.354  29.047  1.00 23.46      A
ATOM   1467  C   GLY A 192     -25.079  35.980  29.059  1.00 23.23      A
ATOM   1468  O   GLY A 192     -25.719  36.038  30.108  1.00 23.84      A
ATOM   1469  N   PHE A 193     -25.550  36.448  27.912  1.00 23.14      A
ATOM   1470  CA  PHE A 193     -26.843  37.128  27.843  1.00 24.32      A
ATOM   1471  CB  PHE A 193     -27.030  37.679  26.431  1.00 22.64      A
ATOM   1472  CG  PHE A 193     -26.104  38.814  26.109  1.00 21.45      A
ATOM   1473  CD1 PHE A 193     -26.183  40.017  26.827  1.00 18.72      A
ATOM   1474  CD2 PHE A 193     -25.144  38.684  25.104  1.00 19.30      A
ATOM   1475  CE1 PHE A 193     -25.328  41.070  26.552  1.00 17.55      A
ATOM   1476  CE2 PHE A 193     -24.277  39.737  24.819  1.00 20.28      A
ATOM   1477  CZ  PHE A 193     -24.370  40.935  25.547  1.00 19.75      A
ATOM   1478  C   PHE A 193     -28.114  36.395  28.307  1.00 25.60      A
ATOM   1479  O   PHE A 193     -29.186  37.005  28.433  1.00 25.09      A
ATOM   1480  N   GLN A 194     -27.993  35.103  28.579  1.00 26.09      A
ATOM   1481  CA  GLN A 194     -29.130  34.315  29.029  1.00 26.31      A
ATOM   1482  CB  GLN A 194     -28.866  32.835  28.765  1.00 25.66      A
ATOM   1483  CG  GLN A 194     -27.667  32.293  29.546  1.00 27.11      A
ATOM   1484  CD  GLN A 194     -27.365  30.846  29.223  1.00 26.30      A
ATOM   1485  OE1 GLN A 194     -28.194  29.973  29.438  1.00 27.55      A
ATOM   1486  NE2 GLN A 194     -26.177  30.588  28.697  1.00 26.14      A
ATOM   1487  C   GLN A 194     -29.372  34.522  30.521  1.00 26.78      A
ATOM   1488  O   GLN A 194     -30.452  34.213  31.032  1.00 28.54      A
ATOM   1489  N   TYR A 195     -28.368  35.051  31.213  1.00 26.97      A
ATOM   1490  CA  TYR A 195     -28.450  35.270  32.654  1.00 27.52      A
ATOM   1491  CB  TYR A 195     -27.101  34.983  33.298  1.00 28.62      A
ATOM   1492  CG  TYR A 195     -26.514  33.641  32.967  1.00 29.25      A
ATOM   1493  CD1 TYR A 195     -27.158  32.471  33.346  1.00 30.45      A
ATOM   1494  CE1 TYR A 195     -26.616  31.230  33.076  1.00 32.07      A
ATOM   1495  CD2 TYR A 195     -25.301  33.541  32.299  1.00 29.48      A
ATOM   1496  CE2 TYR A 195     -24.739  32.300  32.022  1.00 33.49      A
ATOM   1497  CZ  TYR A 195     -25.405  31.143  32.416  1.00 34.05      A
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ATOM   1498  OH  TYR A 195     -24.860  29.900  32.161  1.00 33.83      A
ATOM   1499  C   TYR A 195     -28.863  36.668  33.098  1.00 29.10      A
ATOM   1500  O   TYR A 195     -28.418  37.672  32.526  1.00 30.81      A
ATOM   1501  N   SER A 196     -29.706  36.720  34.128  1.00 27.50      A
ATOM   1502  CA  SER A 196     -30.137  37.973  34.730  1.00 26.28      A
ATOM   1503  CB  SER A 196     -31.445  37.771  35.482  1.00 27.84      A
ATOM   1504  OG  SER A 196     -31.271  36.846  36.547  1.00 29.91      A
ATOM   1505  C   SER A 196     -29.016  38.228  35.733  1.00 26.89      A
ATOM   1506  O   SER A 196     -28.298  37.298  36.092  1.00 27.20      A
ATOM   1507  N   PRO A 197     -28.849  39.474  36.209  1.00 27.50      A
ATOM   1508  CD  PRO A 197     -29.642  40.695  35.969  1.00 27.22      A
ATOM   1509  CA  PRO A 197     -27.768  39.731  37.174  1.00 26.03      A
ATOM   1510  CB  PRO A 197     -28.159  41.070  37.774  1.00 24.95      A
ATOM   1511  CG  PRO A 197     -28.760  41.776  36.589  1.00 26.42      A
ATOM   1512  C   PRO A 197     -27.649  38.626  38.216  1.00 27.37      A
ATOM   1513  O   PRO A 197     -26.563  38.084  38.435  1.00 28.14      A
ATOM   1514  N   LYS A 198     -28.768  38.278  38.846  1.00 28.10      A
ATOM   1515  CA  LYS A 198     -28.768  37.217  39.854  1.00 28.21      A
ATOM   1516  CB  LYS A 198     -30.191  36.971  40.358  1.00 31.81      A
ATOM   1517  CG  LYS A 198     -30.300  35.911  41.442  1.00 32.92      A
ATOM   1518  CD  LYS A 198     -31.758  35.672  41.787  1.00 36.46      A
ATOM   1519  CE  LYS A 198     -31.923  35.085  43.187  1.00 37.33      A
ATOM   1520  NZ  LYS A 198     -33.366  34.854  43.555  1.00 39.17      A
ATOM   1521  C   LYS A 198     -28.214  35.902  39.299  1.00 26.00      A
ATOM   1522  O   LYS A 198     -27.405  35.239  39.932  1.00 23.87      A
ATOM   1523  N   GLN A 199     -28.660  35.531  38.108  1.00 25.26      A
ATOM   1524  CA  GLN A 199     -28.219  34.284  37.500  1.00 25.98      A
ATOM   1525  CB  GLN A 199     -29.109  33.962  36.298  1.00 23.19      A
ATOM   1526  CG  GLN A 199     -30.581  34.046  36.656  1.00 22.18      A
ATOM   1527  CD  GLN A 199     -31.498  33.769  35.499  1.00 19.29      A
ATOM   1528  OE1 GLN A 199     -31.293  34.259  34.393  1.00 21.26      A
ATOM   1529  NE2 GLN A 199     -32.529  32.993  35.752  1.00 19.96      A
ATOM   1530  C   GLN A 199     -26.748  34.298  37.099  1.00 26.29      A
ATOM   1531  O   GLN A 199     -26.069  33.272  37.190  1.00 26.52      A
ATOM   1532  N   ARG A 200     -26.259  35.454  36.657  1.00 25.72      A
ATOM   1533  CA  ARG A 200     -24.866  35.576  36.262  1.00 25.82      A
ATOM   1534  CB  ARG A 200     -24.604  36.932  35.624  1.00 25.74      A
ATOM   1535  CG  ARG A 200     -23.152  37.121  35.211  1.00 25.99      A
ATOM   1536  CD  ARG A 200     -22.804  38.589  35.061  1.00 26.60      A
ATOM   1537  NE  ARG A 200     -21.442  38.797  34.575  1.00 31.11      A
ATOM   1538  CZ  ARG A 200     -21.028  38.506  33.342  1.00 31.78      A
ATOM   1539  NH1 ARG A 200     -21.869  37.988  32.458  1.00 31.47      A
ATOM   1540  NH2 ARG A 200     -19.773  38.750  32.986  1.00 32.24      A
ATOM   1541  C   ARG A 200     -23.994  35.429  37.501  1.00 27.06      A
ATOM   1542  O   ARG A 200     -22.945  34.782  37.470  1.00 27.97      A
ATOM   1543  N   VAL A 201     -24.424  36.036  38.600  1.00 26.25      A
ATOM   1544  CA  VAL A 201     -23.662  35.934  39.837  1.00 26.34      A
ATOM   1545  CB  VAL A 201     -24.208  36.920  40.890  1.00 25.70      A
ATOM   1546  CG1 VAL A 201     -23.476  36.758  42.200  1.00 24.96      A
ATOM   1547  CG2 VAL A 201     -24.031  38.325  40.378  1.00 26.35      A
ATOM   1548  C   VAL A 201     -23.712  34.495  40.364  1.00 25.26      A
ATOM   1549  O   VAL A 201     -22.762  34.011  40.974  1.00 22.38      A
ATOM   1550  N   GLU A 202     -24.828  33.818  40.116  1.00 25.96      A
ATOM   1551  CA  GLU A 202     -24.988  32.436  40.542  1.00 28.76      A
ATOM   1552  CB  GLU A 202     -26.411  31.940  40.227  1.00 32.57      A
ATOM   1553  CG  GLU A 202     -26.618  30.421  40.382  1.00 37.01      A
ATOM   1554  CD  GLU A 202     -28.084  29.983  40.216  1.00 40.11      A
ATOM   1555  OE1 GLU A 202     -28.866  30.723  39.563  1.00 40.33      A
ATOM   1556  OE2 GLU A 202     -28.446  28.891  40.727  1.00 37.97      A
ATOM   1557  C   GLU A 202     -23.968  31.584  39.803  1.00 28.15      A
ATOM   1558  O   GLU A 202     -23.262  30.774  40.402  1.00 27.44      A
ATOM   1559  N   PHE A 203     -23.886  31.796  38.496  1.00 27.89      A
ATOM   1560  CA  PHE A 203     -22.978  31.044  37.657  1.00 28.47      A
ATOM   1561  CB  PHE A 203     -23.258  31.360  36.186  1.00 29.89      A
ATOM   1562  CG  PHE A 203     -22.355  30.635  35.227  1.00 31.87      A
ATOM   1563  CD1 PHE A 203     -22.384  29.247  35.138  1.00 31.79      A
ATOM   1564  CD2 PHE A 203     -21.459  31.340  34.431  1.00 32.64      A
ATOM   1565  CE1 PHE A 203     -21.534  28.570  34.272  1.00 32.87      A
ATOM   1566  CE2 PHE A 203     -20.599  30.671  33.560  1.00 34.80      A
ATOM   1567  CZ  PHE A 203     -20.637  29.281  33.480  1.00 33.49      A
ATOM   1568  C   PHE A 203     -21.511  31.309  37.989  1.00 28.76      A
ATOM   1569  O   PHE A 203     -20.688  30.396  37.973  1.00 30.47      A
ATOM   1570  N   LEU A 204     -21.176  32.552  38.283  1.00 26.38      A
ATOM   1571  CA  LEU A 204     -19.801  32.877  38.604  1.00 26.11      A
ATOM   1572  CB  LEU A 204     -19.635  34.400  38.650  1.00 25.89      A
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ATOM	1573	CG	LEU	A	204	-19.678	35.127	37.300	1.00	23.44	A
ATOM	1574	CD1	LEU	A	204	-19.842	36.614	37.500	1.00	20.90	A
ATOM	1575	CD2	LEU	A	204	-18.404	34.827	36.541	1.00	20.92	A
ATOM	1576	C	LEU	A	204	-19.359	32.250	39.934	1.00	27.23	A
ATOM	1577	O	LEU	A	204	-18.283	31.657	40.036	1.00	26.90	A
ATOM	1578	N	VAL	A	205	-20.194	32.387	40.953	1.00	28.05	A
ATOM	1579	CA	VAL	A	205	-19.876	31.845	42.259	1.00	28.38	A
ATOM	1580	CB	VAL	A	205	-20.895	32.309	43.309	1.00	28.05	A
ATOM	1581	CG1	VAL	A	205	-20.509	31.783	44.671	1.00	26.27	A
ATOM	1582	CG2	VAL	A	205	-20.956	33.816	43.328	1.00	27.10	A
ATOM	1583	C	VAL	A	205	-19.819	30.322	42.240	1.00	29.08	A
ATOM	1584	O	VAL	A	205	-18.843	29.735	42.710	1.00	28.84	A
ATOM	1585	N	ASN	A	206	-20.843	29.670	41.702	1.00	29.23	A
ATOM	1586	CA	ASN	A	206	-20.796	28.213	41.669	1.00	31.51	A
ATOM	1587	CB	ASN	A	206	-22.062	27.620	41.034	1.00	32.82	A
ATOM	1588	CG	ASN	A	206	-23.309	27.858	41.883	1.00	37.60	A
ATOM	1589	OD1	ASN	A	206	-23.299	27.666	43.108	1.00	38.85	A
ATOM	1590	ND2	ASN	A	206	-24.395	28.271	41.232	1.00	39.02	A
ATOM	1591	C	ASN	A	206	-19.550	27.736	40.918	1.00	30.88	A
ATOM	1592	O	ASN	A	206	-18.871	26.812	41.367	1.00	31.59	A
ATOM	1593	N	THR	A	207	-19.240	28.369	39.791	1.00	29.04	A
ATOM	1594	CA	THR	A	207	-18.064	27.987	39.018	1.00	29.55	A
ATOM	1595	CB	THR	A	207	-17.903	28.856	37.738	1.00	29.86	A
ATOM	1596	OG1	THR	A	207	-19.037	28.669	36.883	1.00	32.95	A
ATOM	1597	CG2	THR	A	207	-16.647	28.464	36.970	1.00	29.18	A
ATOM	1598	C	THR	A	207	-16.803	28.139	39.865	1.00	29.56	A
ATOM	1599	O	THR	A	207	-16.007	27.210	39.991	1.00	30.10	A
ATOM	1600	N	TRP	A	208	-16.627	29.316	40.449	1.00	28.91	A
ATOM	1601	CA	TRP	A	208	-15.455	29.577	41.265	1.00	27.44	A
ATOM	1602	CB	TRP	A	208	-15.557	30.964	41.904	1.00	26.76	A
ATOM	1603	CG	TRP	A	208	-14.288	31.412	42.542	1.00	24.77	A
ATOM	1604	CD2	TRP	A	208	-13.178	32.026	41.883	1.00	25.13	A
ATOM	1605	CE2	TRP	A	208	-12.176	32.233	42.858	1.00	24.91	A
ATOM	1606	CE3	TRP	A	208	-12.930	32.423	40.561	1.00	24.12	A
ATOM	1607	CD1	TRP	A	208	-13.931	31.275	43.851	1.00	23.80	A
ATOM	1608	NE1	TRP	A	208	-12.663	31.764	44.051	1.00	23.19	A
ATOM	1609	CZ2	TRP	A	208	-10.940	32.819	42.552	1.00	23.70	A
ATOM	1610	CZ3	TRP	A	208	-11.704	33.006	40.257	1.00	25.52	A
ATOM	1611	CH2	TRP	A	208	-10.724	33.197	41.252	1.00	25.28	A
ATOM	1612	C	TRP	A	208	-15.328	28.519	42.336	1.00	27.66	A
ATOM	1613	O	TRP	A	208	-14.272	27.913	42.497	1.00	26.63	A
ATOM	1614	N	LYS	A	209	-16.422	28.298	43.060	1.00	29.19	A
ATOM	1615	CA	LYS	A	209	-16.450	27.315	44.138	1.00	29.67	A
ATOM	1616	CB	LYS	A	209	-17.792	27.363	44.880	1.00	28.98	A
ATOM	1617	CG	LYS	A	209	-18.018	28.619	45.710	1.00	32.45	A
ATOM	1618	CD	LYS	A	209	-19.298	28.539	46.573	1.00	34.08	A
ATOM	1619	CE	LYS	A	209	-19.439	29.782	47.480	1.00	37.89	A
ATOM	1620	NZ	LYS	A	209	-20.623	29.798	48.409	1.00	36.49	A
ATOM	1621	C	LYS	A	209	-16.201	25.888	43.665	1.00	29.59	A
ATOM	1622	O	LYS	A	209	-15.811	25.041	44.459	1.00	31.57	A
ATOM	1623	N	SER	A	210	-16.406	25.613	42.383	1.00	28.00	A
ATOM	1624	CA	SER	A	210	-16.222	24.253	41.902	1.00	29.08	A
ATOM	1625	CB	SER	A	210	-17.180	23.959	40.758	1.00	28.16	A
ATOM	1626	OG	SER	A	210	-16.740	24.590	39.577	1.00	30.47	A
ATOM	1627	C	SER	A	210	-14.810	23.928	41.458	1.00	30.11	A
ATOM	1628	O	SER	A	210	-14.523	22.802	41.075	1.00	29.53	A
ATOM	1629	N	LYS	A	211	-13.925	24.911	41.500	1.00	32.13	A
ATOM	1630	CA	LYS	A	211	-12.549	24.667	41.104	1.00	34.20	A
ATOM	1631	CB	LYS	A	211	-11.933	25.917	40.461	1.00	34.18	A
ATOM	1632	CG	LYS	A	211	-12.651	26.416	39.213	1.00	34.28	A
ATOM	1633	CD	LYS	A	211	-12.844	25.315	38.186	1.00	33.76	A
ATOM	1634	CE	LYS	A	211	-13.547	25.837	36.944	1.00	32.41	A
ATOM	1635	NZ	LYS	A	211	-13.801	24.743	35.963	1.00	32.64	A
ATOM	1636	C	LYS	A	211	-11.772	24.305	42.361	1.00	35.63	A
ATOM	1637	O	LYS	A	211	-11.906	24.969	43.387	1.00	34.77	A
ATOM	1638	N	LYS	A	212	-10.971	23.250	42.285	1.00	36.85	A
ATOM	1639	CA	LYS	A	212	-10.175	22.835	43.426	1.00	38.92	A
ATOM	1640	CB	LYS	A	212	-9.235	21.705	43.012	1.00	42.68	A
ATOM	1641	CG	LYS	A	212	-9.996	20.495	42.425	1.00	49.05	A
ATOM	1642	CD	LYS	A	212	-9.100	19.267	42.208	1.00	52.70	A
ATOM	1643	CE	LYS	A	212	-9.917	18.025	41.839	1.00	53.99	A
ATOM	1644	NZ	LYS	A	212	-9.089	16.775	41.840	1.00	55.37	A
ATOM	1645	C	LYS	A	212	-9.405	24.052	43.927	1.00	38.43	A
ATOM	1646	O	LYS	A	212	-9.354	24.324	45.127	1.00	37.85	A
ATOM	1647	N	CYS	A	213	-8.829	24.793	42.988	1.00	37.47	A

ATOM	1648	CA	CYS	A	213	-8.090	26.012	43.293	1.00	36.46	A
ATOM	1649	CB	CYS	A	213	-6.596	25.715	43.439	1.00	35.64	A
ATOM	1650	SG	CYS	A	213	-5.652	27.111	44.105	1.00	35.13	A
ATOM	1651	C	CYS	A	213	-8.338	26.963	42.116	1.00	35.50	A
ATOM	1652	O	CYS	A	213	-7.557	27.012	41.159	1.00	35.43	A
ATOM	1653	N	PRO	A	214	-9.435	27.735	42.179	1.00	33.71	A
ATOM	1654	CD	PRO	A	214	-10.324	27.863	43.344	1.00	33.38	A
ATOM	1655	CA	PRO	A	214	-9.836	28.688	41.143	1.00	32.97	A
ATOM	1656	CB	PRO	A	214	-11.185	29.185	41.643	1.00	31.91	A
ATOM	1657	CG	PRO	A	214	-10.975	29.214	43.098	1.00	31.54	A
ATOM	1658	C	PRO	A	214	-8.905	29.844	40.820	1.00	31.72	A
ATOM	1659	O	PRO	A	214	-8.392	30.524	41.707	1.00	33.29	A
ATOM	1660	N	MET	A	215	-8.695	30.040	39.523	1.00	28.79	A
ATOM	1661	CA	MET	A	215	-7.903	31.137	39.008	1.00	26.59	A
ATOM	1662	CB	MET	A	215	-6.592	30.663	38.397	1.00	26.75	A
ATOM	1663	CG	MET	A	215	-5.732	31.811	37.840	1.00	28.47	A
ATOM	1664	SD	MET	A	215	-6.191	32.425	36.180	1.00	28.48	A
ATOM	1665	CE	MET	A	215	-5.159	31.385	35.188	1.00	25.61	A
ATOM	1666	C	MET	A	215	-8.793	31.695	37.926	1.00	25.52	A
ATOM	1667	O	MET	A	215	-9.340	30.944	37.118	1.00	25.63	A
ATOM	1668	N	GLY	A	216	-8.969	33.008	37.924	1.00	24.86	A
ATOM	1669	CA	GLY	A	216	-9.814	33.609	36.916	1.00	21.71	A
ATOM	1670	C	GLY	A	216	-9.193	34.854	36.324	1.00	20.17	A
ATOM	1671	O	GLY	A	216	-8.304	35.466	36.916	1.00	20.17	A
ATOM	1672	N	PHE	A	217	-9.658	35.224	35.140	1.00	19.24	A
ATOM	1673	CA	PHE	A	217	-9.166	36.419	34.482	1.00	18.14	A
ATOM	1674	CB	PHE	A	217	-7.815	36.169	33.809	1.00	19.10	A
ATOM	1675	CG	PHE	A	217	-7.875	35.250	32.629	1.00	18.44	A
ATOM	1676	CD1	PHE	A	217	-7.622	33.887	32.779	1.00	17.55	A
ATOM	1677	CD2	PHE	A	217	-8.140	35.749	31.355	1.00	18.74	A
ATOM	1678	CE1	PHE	A	217	-7.623	33.040	31.679	1.00	16.91	A
ATOM	1679	CE2	PHE	A	217	-8.146	34.906	30.248	1.00	18.15	A
ATOM	1680	CZ	PHE	A	217	-7.886	33.553	30.410	1.00	18.16	A
ATOM	1681	C	PHE	A	217	-10.119	36.948	33.444	1.00	16.83	A
ATOM	1682	O	PHE	A	217	-10.835	36.197	32.799	1.00	16.11	A
ATOM	1683	N	SER	A	218	-10.125	38.260	33.301	1.00	16.63	A
ATOM	1684	CA	SER	A	218	-10.949	38.907	32.307	1.00	18.34	A
ATOM	1685	CB	SER	A	218	-11.483	40.224	32.851	1.00	17.81	A
ATOM	1686	OG	SER	A	218	-10.407	41.074	33.177	1.00	18.40	A
ATOM	1687	C	SER	A	218	-9.956	39.179	31.181	1.00	20.33	A
ATOM	1688	O	SER	A	218	-8.745	39.223	31.415	1.00	21.12	A
ATOM	1689	N	TYR	A	219	-10.446	39.323	29.959	1.00	21.26	A
ATOM	1690	CA	TYR	A	219	-9.554	39.610	28.846	1.00	23.26	A
ATOM	1691	CB	TYR	A	219	-9.372	38.393	27.931	1.00	22.50	A
ATOM	1692	CG	TYR	A	219	-8.356	38.634	26.838	1.00	22.43	A
ATOM	1693	CD1	TYR	A	219	-6.988	38.557	27.100	1.00	21.07	A
ATOM	1694	CE1	TYR	A	219	-6.044	38.802	26.090	1.00	21.27	A
ATOM	1695	CD2	TYR	A	219	-8.763	38.965	25.542	1.00	23.49	A
ATOM	1696	CE2	TYR	A	219	-7.831	39.215	24.524	1.00	22.31	A
ATOM	1697	CZ	TYR	A	219	-6.471	39.132	24.804	1.00	22.39	A
ATOM	1698	OH	TYR	A	219	-5.546	39.393	23.811	1.00	18.07	A
ATOM	1699	C	TYR	A	219	-10.141	40.760	28.054	1.00	23.75	A
ATOM	1700	O	TYR	A	219	-11.274	40.688	27.569	1.00	23.84	A
ATOM	1701	N	ASP	A	220	-9.357	41.822	27.936	1.00	24.42	A
ATOM	1702	CA	ASP	A	220	-9.781	43.008	27.229	1.00	24.48	A
ATOM	1703	CB	ASP	A	220	-9.473	44.232	28.065	1.00	25.09	A
ATOM	1704	CG	ASP	A	220	-9.810	45.495	27.354	1.00	27.20	A
ATOM	1705	OD1	ASP	A	220	-10.934	45.568	26.808	1.00	26.46	A
ATOM	1706	OD2	ASP	A	220	-8.957	46.410	27.341	1.00	30.56	A
ATOM	1707	C	ASP	A	220	-9.134	43.154	25.862	1.00	26.32	A
ATOM	1708	O	ASP	A	220	-7.944	43.452	25.742	1.00	25.98	A
ATOM	1709	N	THR	A	221	-9.942	42.943	24.829	1.00	27.49	A
ATOM	1710	CA	THR	A	221	-9.503	43.052	23.450	1.00	24.92	A
ATOM	1711	CB	THR	A	221	-10.491	42.331	22.536	1.00	23.80	A
ATOM	1712	OG1	THR	A	221	-10.518	40.937	22.878	1.00	22.80	A
ATOM	1713	CG2	THR	A	221	-10.095	42.503	21.088	1.00	24.18	A
ATOM	1714	C	THR	A	221	-9.431	44.521	23.060	1.00	24.92	A
ATOM	1715	O	THR	A	221	-10.388	45.263	23.247	1.00	25.98	A
ATOM	1716	N	ARG	A	222	-8.291	44.946	22.531	1.00	27.40	A
ATOM	1717	CA	ARG	A	222	-8.121	46.339	22.116	1.00	29.32	A
ATOM	1718	CB	ARG	A	222	-6.652	46.621	21.759	1.00	30.80	A
ATOM	1719	CG	ARG	A	222	-6.398	48.082	21.415	1.00	34.89	A
ATOM	1720	CD	ARG	A	222	-5.166	48.289	20.552	1.00	39.23	A
ATOM	1721	NE	ARG	A	222	-5.346	49.454	19.681	1.00	44.73	A
ATOM	1722	CZ	ARG	A	222	-4.630	50.576	19.751	1.00	46.58	A

ATOM	1723	NH1	ARG	A	222	-3.663	50.695	20.658	1.00	48.24	A
ATOM	1724	NH2	ARG	A	222	-4.891	51.585	18.922	1.00	45.57	A
ATOM	1725	C	ARG	A	222	-9.000	46.662	20.902	1.00	28.53	A
ATOM	1726	O	ARG	A	222	-8.686	46.258	19.783	1.00	29.01	A
ATOM	1727	N	CYS	A	223	-10.091	47.389	21.122	1.00	27.99	A
ATOM	1728	CA	CYS	A	223	-11.000	47.770	20.034	1.00	30.51	A
ATOM	1729	CB	CYS	A	223	-10.310	48.721	19.047	1.00	33.88	A
ATOM	1730	SG	CYS	A	223	-9.606	50.242	19.747	1.00	42.46	A
ATOM	1731	C	CYS	A	223	-11.478	46.552	19.257	1.00	29.03	A
ATOM	1732	O	CYS	A	223	-11.124	46.374	18.087	1.00	29.03	A
ATOM	1733	N	PHE	A	224	-12.314	45.740	19.892	1.00	27.76	A
ATOM	1734	CA	PHE	A	224	-12.816	44.513	19.278	1.00	26.60	A
ATOM	1735	CB	PHE	A	224	-13.829	43.847	20.215	1.00	23.54	A
ATOM	1736	CG	PHE	A	224	-14.136	42.418	19.863	1.00	22.83	A
ATOM	1737	CD1	PHE	A	224	-15.143	42.110	18.948	1.00	20.63	A
ATOM	1738	CD2	PHE	A	224	-13.438	41.373	20.472	1.00	19.99	A
ATOM	1739	CE1	PHE	A	224	-15.459	40.784	18.652	1.00	19.67	A
ATOM	1740	CE2	PHE	A	224	-13.748	40.037	20.178	1.00	18.95	A
ATOM	1741	CZ	PHE	A	224	-14.758	39.744	19.272	1.00	19.81	A
ATOM	1742	C	PHE	A	224	-13.405	44.656	17.873	1.00	26.36	A
ATOM	1743	O	PHE	A	224	-13.005	43.935	16.957	1.00	25.80	A
ATOM	1744	N	ASP	A	225	-14.338	45.585	17.693	1.00	26.55	A
ATOM	1745	CA	ASP	A	225	-14.956	45.765	16.383	1.00	26.43	A
ATOM	1746	CB	ASP	A	225	-15.922	46.948	16.416	1.00	25.63	A
ATOM	1747	CG	ASP	A	225	-17.250	46.601	17.061	1.00	28.31	A
ATOM	1748	OD1	ASP	A	225	-17.389	45.475	17.602	1.00	27.28	A
ATOM	1749	OD2	ASP	A	225	-18.159	47.466	17.029	1.00	29.45	A
ATOM	1750	C	ASP	A	225	-13.991	45.919	15.202	1.00	25.50	A
ATOM	1751	O	ASP	A	225	-14.243	45.379	14.120	1.00	26.69	A
ATOM	1752	N	SER	A	226	-12.895	46.643	15.390	1.00	23.35	A
ATOM	1753	CA	SER	A	226	-11.958	46.822	14.295	1.00	24.53	A
ATOM	1754	CB	SER	A	226	-11.153	48.106	14.475	1.00	25.64	A
ATOM	1755	OG	SER	A	226	-10.498	48.116	15.731	1.00	32.01	A
ATOM	1756	C	SER	A	226	-11.025	45.635	14.185	1.00	25.20	A
ATOM	1757	O	SER	A	226	-10.252	45.532	13.232	1.00	26.56	A
ATOM	1758	N	THR	A	227	-11.086	44.727	15.154	1.00	24.56	A
ATOM	1759	CA	THR	A	227	-10.220	43.561	15.087	1.00	24.31	A
ATOM	1760	CB	THR	A	227	-9.778	43.045	16.490	1.00	25.01	A
ATOM	1761	OG1	THR	A	227	-10.909	42.538	17.207	1.00	25.61	A
ATOM	1762	CG2	THR	A	227	-9.131	44.160	17.282	1.00	24.65	A
ATOM	1763	C	THR	A	227	-10.910	42.431	14.357	1.00	23.55	A
ATOM	1764	O	THR	A	227	-10.274	41.446	14.013	1.00	24.20	A
ATOM	1765	N	VAL	A	228	-12.208	42.566	14.122	1.00	23.30	A
ATOM	1766	CA	VAL	A	228	-12.954	41.523	13.420	1.00	24.14	A
ATOM	1767	CB	VAL	A	228	-14.466	41.671	13.655	1.00	24.84	A
ATOM	1768	CG1	VAL	A	228	-15.236	40.687	12.775	1.00	24.67	A
ATOM	1769	CG2	VAL	A	228	-14.777	41.441	15.122	1.00	24.58	A
ATOM	1770	C	VAL	A	228	-12.673	41.578	11.923	1.00	23.49	A
ATOM	1771	O	VAL	A	228	-12.838	42.626	11.292	1.00	23.57	A
ATOM	1772	N	THR	A	229	-12.264	40.442	11.362	1.00	23.27	A
ATOM	1773	CA	THR	A	229	-11.925	40.343	9.938	1.00	24.09	A
ATOM	1774	CB	THR	A	229	-10.724	39.413	9.731	1.00	22.27	A
ATOM	1775	OG1	THR	A	229	-11.134	38.054	9.937	1.00	21.23	A
ATOM	1776	CG2	THR	A	229	-9.617	39.752	10.708	1.00	21.01	A
ATOM	1777	C	THR	A	229	-13.037	39.814	9.033	1.00	25.96	A
ATOM	1778	O	THR	A	229	-13.979	39.169	9.499	1.00	27.30	A
ATOM	1779	N	GLU	A	230	-12.908	40.076	7.733	1.00	27.58	A
ATOM	1780	CA	GLU	A	230	-13.879	39.585	6.755	1.00	28.43	A
ATOM	1781	CB	GLU	A	230	-13.423	39.876	5.320	1.00	32.52	A
ATOM	1782	CG	GLU	A	230	-12.908	41.295	5.100	1.00	39.60	A
ATOM	1783	CD	GLU	A	230	-11.406	41.421	5.370	1.00	42.86	A
ATOM	1784	OE1	GLU	A	230	-10.848	40.556	6.101	1.00	41.83	A
ATOM	1785	OE2	GLU	A	230	-10.794	42.392	4.854	1.00	42.20	A
ATOM	1786	C	GLU	A	230	-13.958	38.075	6.949	1.00	26.10	A
ATOM	1787	O	GLU	A	230	-15.030	37.480	6.833	1.00	24.96	A
ATOM	1788	N	SER	A	231	-12.812	37.465	7.245	1.00	23.46	A
ATOM	1789	CA	SER	A	231	-12.762	36.033	7.483	1.00	21.80	A
ATOM	1790	CB	SER	A	231	-11.341	35.585	7.754	1.00	19.25	A
ATOM	1791	OG	SER	A	231	-11.338	34.225	8.128	1.00	19.63	A
ATOM	1792	C	SER	A	231	-13.633	35.714	8.692	1.00	23.48	A
ATOM	1793	O	SER	A	231	-14.421	34.761	8.660	1.00	23.98	A
ATOM	1794	N	ASP	A	232	-13.497	36.508	9.756	1.00	22.54	A
ATOM	1795	CA	ASP	A	232	-14.305	36.287	10.944	1.00	23.05	A
ATOM	1796	CB	ASP	A	232	-14.042	37.345	12.006	1.00	23.01	A
ATOM	1797	CG	ASP	A	232	-12.706	37.185	12.667	1.00	25.02	A

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ATOM   1798  OD1 ASP A 232     -12.185  36.048  12.682  1.00 25.91      A
ATOM   1799  OD2 ASP A 232     -12.188  38.196  13.186  1.00 24.49      A
ATOM   1800  C   ASP A 232     -15.773  36.354  10.578  1.00 23.55      A
ATOM   1801  O   ASP A 232     -16.563  35.484  10.946  1.00 22.47      A
ATOM   1802  N   ILE A 233     -16.134  37.401   9.851  1.00 23.51      A
ATOM   1803  CA  ILE A 233     -17.513  37.595   9.465  1.00 24.70      A
ATOM   1804  CB  ILE A 233     -17.677  38.979   8.804  1.00 26.00      A
ATOM   1805  CG2 ILE A 233     -19.062  39.143   8.235  1.00 28.26      A
ATOM   1806  CG1 ILE A 233     -17.451  40.063   9.861  1.00 26.57      A
ATOM   1807  CD1 ILE A 233     -17.315  41.460   9.295  1.00 29.39      A
ATOM   1808  C   ILE A 233     -18.042  36.470   8.585  1.00 24.01      A
ATOM   1809  O   ILE A 233     -19.190  36.065   8.736  1.00 24.27      A
ATOM   1810  N   ARG A 234     -17.213  35.951   7.685  1.00 23.54      A
ATOM   1811  CA  ARG A 234     -17.643  34.861   6.818  1.00 22.83      A
ATOM   1812  CB  ARG A 234     -16.664  34.685   5.647  1.00 21.48      A
ATOM   1813  CG  ARG A 234     -16.808  35.760   4.558  1.00 21.18      A
ATOM   1814  CD  ARG A 234     -15.694  35.671   3.507  1.00 26.61      A
ATOM   1815  NE  ARG A 234     -15.394  36.957   2.859  1.00 28.73      A
ATOM   1816  CZ  ARG A 234     -16.023  37.429   1.786  1.00 29.41      A
ATOM   1817  NH1 ARG A 234     -16.992  36.734   1.213  1.00 31.92      A
ATOM   1818  NH2 ARG A 234     -15.691  38.602   1.284  1.00 30.32      A
ATOM   1819  C   ARG A 234     -17.783  33.568   7.628  1.00 23.90      A
ATOM   1820  O   ARG A 234     -18.726  32.797   7.411  1.00 24.66      A
ATOM   1821  N   VAL A 235     -16.856  33.331   8.559  1.00 22.69      A
ATOM   1822  CA  VAL A 235     -16.921  32.149   9.419  1.00 20.57      A
ATOM   1823  CB  VAL A 235     -15.680  32.059  10.357  1.00 21.01      A
ATOM   1824  CG1 VAL A 235     -16.028  31.290  11.651  1.00 21.10      A
ATOM   1825  CG2 VAL A 235     -14.540  31.357   9.641  1.00 16.45      A
ATOM   1826  C   VAL A 235     -18.190  32.269  10.266  1.00 20.65      A
ATOM   1827  O   VAL A 235     -18.877  31.296  10.537  1.00 21.87      A
ATOM   1828  N   GLU A 236     -18.487  33.485  10.684  1.00 22.02      A
ATOM   1829  CA  GLU A 236     -19.669  33.763  11.469  1.00 22.86      A
ATOM   1830  CB  GLU A 236     -19.656  35.229  11.849  1.00 24.52      A
ATOM   1831  CG  GLU A 236     -20.935  35.780  12.410  1.00 26.47      A
ATOM   1832  CD  GLU A 236     -20.840  37.290  12.562  1.00 29.78      A
ATOM   1833  OE1 GLU A 236     -21.903  37.955  12.588  1.00 29.70      A
ATOM   1834  OE2 GLU A 236     -19.693  37.804  12.651  1.00 27.90      A
ATOM   1835  C   GLU A 236     -20.899  33.432  10.634  1.00 24.09      A
ATOM   1836  O   GLU A 236     -21.922  33.002  11.167  1.00 26.98      A
ATOM   1837  N   GLU A 237     -20.796  33.618   9.320  1.00 22.92      A
ATOM   1838  CA  GLU A 237     -21.910  33.321   8.425  1.00 20.45      A
ATOM   1839  CB  GLU A 237     -21.702  33.947   7.039  1.00 20.62      A
ATOM   1840  CG  GLU A 237     -22.991  34.006   6.201  1.00 21.78      A
ATOM   1841  CD  GLU A 237     -22.768  33.905   4.691  1.00 22.69      A
ATOM   1842  OE1 GLU A 237     -21.641  34.177   4.228  1.00 21.69      A
ATOM   1843  OE2 GLU A 237     -23.732  33.569   3.965  1.00 19.98      A
ATOM   1844  C   GLU A 237     -22.053  31.819   8.258  1.00 18.56      A
ATOM   1845  O   GLU A 237     -23.153  31.295   8.277  1.00 17.22      A
ATOM   1846  N   SER A 238     -20.935  31.128   8.079  1.00 17.85      A
ATOM   1847  CA  SER A 238     -20.975  29.684   7.891  1.00 18.24      A
ATOM   1848  CB  SER A 238     -19.565  29.098   7.817  1.00 17.55      A
ATOM   1849  OG  SER A 238     -19.025  28.901   9.111  1.00 12.72      A
ATOM   1850  C   SER A 238     -21.721  29.022   9.033  1.00 19.72      A
ATOM   1851  O   SER A 238     -22.277  27.934   8.860  1.00 19.31      A
ATOM   1852  N   ILE A 239     -21.719  29.664  10.202  1.00 20.49      A
ATOM   1853  CA  ILE A 239     -22.422  29.110  11.351  1.00 21.32      A
ATOM   1854  CB  ILE A 239     -21.968  29.749  12.672  1.00 21.34      A
ATOM   1855  CG2 ILE A 239     -22.891  29.286  13.814  1.00 20.32      A
ATOM   1856  CG1 ILE A 239     -20.505  29.373  12.958  1.00 20.30      A
ATOM   1857  CD1 ILE A 239     -19.864  30.138  14.094  1.00 14.39      A
ATOM   1858  C   ILE A 239     -23.900  29.373  11.155  1.00 23.16      A
ATOM   1859  O   ILE A 239     -24.718  28.485  11.338  1.00 26.11      A
ATOM   1860  N   TYR A 240     -24.243  30.597  10.775  1.00 24.54      A
ATOM   1861  CA  TYR A 240     -25.635  30.939  10.543  1.00 22.64      A
ATOM   1862  CB  TYR A 240     -25.769  32.374  10.043  1.00 24.54      A
ATOM   1863  CG  TYR A 240     -25.268  33.426  10.994  1.00 26.06      A
ATOM   1864  CD1 TYR A 240     -25.430  33.284  12.375  1.00 26.38      A
ATOM   1865  CE1 TYR A 240     -25.000  34.277  13.250  1.00 25.23      A
ATOM   1866  CD2 TYR A 240     -24.664  34.588  10.514  1.00 25.39      A
ATOM   1867  CE2 TYR A 240     -24.232  35.581  11.381  1.00 24.65      A
ATOM   1868  CZ  TYR A 240     -24.403  35.414  12.739  1.00 24.36      A
ATOM   1869  OH  TYR A 240     -23.957  36.379  13.586  1.00 28.90      A
ATOM   1870  C   TYR A 240     -26.189  30.025   9.475  1.00 21.37      A
ATOM   1871  O   TYR A 240     -27.361  29.665   9.510  1.00 22.20      A
ATOM   1872  N   GLN A 241     -25.329  29.662   8.527  1.00 20.35      A
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ATOM	1873	CA	GLN	A	241	-25.710	28.821	7.400	1.00	19.01	A
ATOM	1874	CB	GLN	A	241	-24.612	28.832	6.339	1.00	19.39	A
ATOM	1875	CG	GLN	A	241	-24.465	30.160	5.619	1.00	20.45	A
ATOM	1876	CD	GLN	A	241	-25.681	30.509	4.778	1.00	20.99	A
ATOM	1877	OE1	GLN	A	241	-26.641	29.749	4.715	1.00	20.77	A
ATOM	1878	NE2	GLN	A	241	-25.639	31.666	4.122	1.00	22.81	A
ATOM	1879	C	GLN	A	241	-26.050	27.397	7.761	1.00	18.45	A
ATOM	1880	O	GLN	A	241	-26.610	26.675	6.945	1.00	19.35	A
ATOM	1881	N	CYS	A	242	-25.713	26.992	8.978	1.00	18.63	A
ATOM	1882	CA	CYS	A	242	-26.007	25.645	9.439	1.00	17.28	A
ATOM	1883	CB	CYS	A	242	-25.086	25.278	10.587	1.00	15.31	A
ATOM	1884	SG	CYS	A	242	-23.424	24.991	10.035	1.00	20.63	A
ATOM	1885	C	CYS	A	242	-27.454	25.522	9.884	1.00	17.34	A
ATOM	1886	O	CYS	A	242	-27.981	24.419	9.992	1.00	18.33	A
ATOM	1887	N	CYS	A	243	-28.097	26.653	10.141	1.00	16.78	A
ATOM	1888	CA	CYS	A	243	-29.491	26.644	10.567	1.00	19.21	A
ATOM	1889	CB	CYS	A	243	-29.918	28.023	11.065	1.00	17.37	A
ATOM	1890	SG	CYS	A	243	-29.092	28.599	12.515	1.00	23.91	A
ATOM	1891	C	CYS	A	243	-30.432	26.263	9.429	1.00	20.32	A
ATOM	1892	O	CYS	A	243	-30.129	26.459	8.251	1.00	19.99	A
ATOM	1893	N	ASP	A	244	-31.580	25.711	9.794	1.00	21.55	A
ATOM	1894	CA	ASP	A	244	-32.581	25.374	8.809	1.00	21.18	A
ATOM	1895	CB	ASP	A	244	-33.592	24.394	9.397	1.00	19.39	A
ATOM	1896	CG	ASP	A	244	-34.685	24.057	8.422	1.00	22.92	A
ATOM	1897	OD1	ASP	A	244	-35.706	24.789	8.390	1.00	20.96	A
ATOM	1898	OD2	ASP	A	244	-34.504	23.070	7.665	1.00	23.28	A
ATOM	1899	C	ASP	A	244	-33.217	26.744	8.548	1.00	19.81	A
ATOM	1900	O	ASP	A	244	-33.690	27.389	9.477	1.00	21.09	A
ATOM	1901	N	LEU	A	245	-33.221	27.187	7.298	1.00	18.20	A
ATOM	1902	CA	LEU	A	245	-33.742	28.504	6.975	1.00	19.53	A
ATOM	1903	CB	LEU	A	245	-32.576	29.473	6.823	1.00	19.01	A
ATOM	1904	CG	LEU	A	245	-31.551	29.579	7.945	1.00	18.13	A
ATOM	1905	CD1	LEU	A	245	-30.237	30.100	7.373	1.00	16.59	A
ATOM	1906	CD2	LEU	A	245	-32.087	30.483	9.040	1.00	15.50	A
ATOM	1907	C	LEU	A	245	-34.563	28.546	5.688	1.00	20.91	A
ATOM	1908	O	LEU	A	245	-34.308	27.785	4.754	1.00	22.21	A
ATOM	1909	N	ALA	A	246	-35.532	29.455	5.630	1.00	20.85	A
ATOM	1910	CA	ALA	A	246	-36.356	29.590	4.435	1.00	21.76	A
ATOM	1911	CB	ALA	A	246	-37.546	30.482	4.719	1.00	20.06	A
ATOM	1912	C	ALA	A	246	-35.487	30.200	3.341	1.00	23.25	A
ATOM	1913	O	ALA	A	246	-34.647	31.051	3.613	1.00	22.64	A
ATOM	1914	N	PRO	A	247	-35.670	29.763	2.086	1.00	25.18	A
ATOM	1915	CD	PRO	A	247	-36.647	28.764	1.607	1.00	25.66	A
ATOM	1916	CA	PRO	A	247	-34.881	30.290	0.969	1.00	25.36	A
ATOM	1917	CB	PRO	A	247	-35.716	29.892	-0.247	1.00	26.80	A
ATOM	1918	CG	PRO	A	247	-36.203	28.528	0.150	1.00	25.79	A
ATOM	1919	C	PRO	A	247	-34.557	31.792	1.003	1.00	25.65	A
ATOM	1920	O	PRO	A	247	-33.385	32.175	1.020	1.00	25.41	A
ATOM	1921	N	GLU	A	248	-35.573	32.648	1.023	1.00	24.97	A
ATOM	1922	CA	GLU	A	248	-35.297	34.080	1.021	1.00	24.92	A
ATOM	1923	CB	GLU	A	248	-36.599	34.870	0.983	1.00	25.87	A
ATOM	1924	CG	GLU	A	248	-37.544	34.424	-0.105	1.00	25.16	A
ATOM	1925	CD	GLU	A	248	-38.513	35.510	-0.493	1.00	27.57	A
ATOM	1926	OE1	GLU	A	248	-38.971	36.264	0.397	1.00	25.85	A
ATOM	1927	OE2	GLU	A	248	-38.821	35.606	-1.697	1.00	29.68	A
ATOM	1928	C	GLU	A	248	-34.454	34.520	2.212	1.00	24.47	A
ATOM	1929	O	GLU	A	248	-33.711	35.498	2.137	1.00	24.40	A
ATOM	1930	N	ALA	A	249	-34.574	33.794	3.314	1.00	23.95	A
ATOM	1931	CA	ALA	A	249	-33.813	34.109	4.515	1.00	22.41	A
ATOM	1932	CB	ALA	A	249	-34.370	33.337	5.701	1.00	22.74	A
ATOM	1933	C	ALA	A	249	-32.362	33.738	4.286	1.00	21.85	A
ATOM	1934	O	ALA	A	249	-31.460	34.482	4.663	1.00	22.35	A
ATOM	1935	N	ARG	A	250	-32.140	32.586	3.657	1.00	21.12	A
ATOM	1936	CA	ARG	A	250	-30.786	32.116	3.382	1.00	19.80	A
ATOM	1937	CB	ARG	A	250	-30.823	30.713	2.774	1.00	19.90	A
ATOM	1938	CG	ARG	A	250	-29.473	30.015	2.702	1.00	20.18	A
ATOM	1939	CD	ARG	A	250	-29.622	28.564	2.228	1.00	20.93	A
ATOM	1940	NE	ARG	A	250	-30.237	27.674	3.218	1.00	21.93	A
ATOM	1941	CZ	ARG	A	250	-29.607	27.174	4.284	1.00	23.86	A
ATOM	1942	NH1	ARG	A	250	-28.329	27.464	4.522	1.00	20.98	A
ATOM	1943	NH2	ARG	A	250	-30.252	26.369	5.119	1.00	22.98	A
ATOM	1944	C	ARG	A	250	-30.077	33.082	2.450	1.00	20.12	A
ATOM	1945	O	ARG	A	250	-28.874	33.311	2.592	1.00	21.06	A
ATOM	1946	N	GLN	A	251	-30.823	33.657	1.507	1.00	19.52	A
ATOM	1947	CA	GLN	A	251	-30.251	34.615	0.564	1.00	18.63	A

ATOM	1948	CB	GLN	A	251	-31.218	34.890	-0.599	1.00	19.02	A
ATOM	1949	CG	GLN	A	251	-30.637	35.684	-1.789	1.00	16.33	A
ATOM	1950	CD	GLN	A	251	-29.558	34.915	-2.534	1.00	19.38	A
ATOM	1951	OE1	GLN	A	251	-28.372	35.106	-2.295	1.00	21.40	A
ATOM	1952	NE2	GLN	A	251	-29.968	34.025	-3.431	1.00	17.96	A
ATOM	1953	C	GLN	A	251	-29.986	35.905	1.316	1.00	19.08	A
ATOM	1954	O	GLN	A	251	-28.925	36.501	1.166	1.00	20.01	A
ATOM	1955	N	ALA	A	252	-30.952	36.334	2.126	1.00	19.38	A
ATOM	1956	CA	ALA	A	252	-30.808	37.570	2.903	1.00	19.88	A
ATOM	1957	CB	ALA	A	252	-32.049	37.810	3.758	1.00	17.35	A
ATOM	1958	C	ALA	A	252	-29.557	37.510	3.783	1.00	20.11	A
ATOM	1959	O	ALA	A	252	-28.793	38.474	3.840	1.00	21.82	A
ATOM	1960	N	ILE	A	253	-29.339	36.382	4.457	1.00	18.08	A
ATOM	1961	CA	ILE	A	253	-28.153	36.232	5.290	1.00	17.92	A
ATOM	1962	CB	ILE	A	253	-28.173	34.873	6.029	1.00	15.88	A
ATOM	1963	CG2	ILE	A	253	-26.858	34.638	6.761	1.00	12.69	A
ATOM	1964	CG1	ILE	A	253	-29.350	34.841	6.998	1.00	13.73	A
ATOM	1965	CD1	ILE	A	253	-29.458	33.575	7.798	1.00	10.99	A
ATOM	1966	C	ILE	A	253	-26.899	36.323	4.403	1.00	20.28	A
ATOM	1967	O	ILE	A	253	-25.915	36.969	4.766	1.00	20.51	A
ATOM	1968	N	ARG	A	254	-26.946	35.677	3.237	1.00	21.65	A
ATOM	1969	CA	ARG	A	254	-25.831	35.689	2.285	1.00	21.57	A
ATOM	1970	CB	ARG	A	254	-26.157	34.771	1.101	1.00	21.20	A
ATOM	1971	CG	ARG	A	254	-25.099	34.692	-0.007	1.00	19.84	A
ATOM	1972	CD	ARG	A	254	-24.069	33.619	0.238	1.00	19.71	A
ATOM	1973	NE	ARG	A	254	-23.027	34.026	1.174	1.00	21.24	A
ATOM	1974	CZ	ARG	A	254	-22.046	34.870	0.879	1.00	20.84	A
ATOM	1975	NH1	ARG	A	254	-21.972	35.402	-0.330	1.00	19.85	A
ATOM	1976	NH2	ARG	A	254	-21.133	35.176	1.790	1.00	22.48	A
ATOM	1977	C	ARG	A	254	-25.529	37.103	1.767	1.00	21.49	A
ATOM	1978	O	ARG	A	254	-24.394	37.567	1.845	1.00	22.50	A
ATOM	1979	N	SER	A	255	-26.548	37.780	1.240	1.00	20.99	A
ATOM	1980	CA	SER	A	255	-26.380	39.129	0.706	1.00	20.88	A
ATOM	1981	CB	SER	A	255	-27.651	39.582	-0.015	1.00	20.95	A
ATOM	1982	OG	SER	A	255	-27.869	38.805	-1.179	1.00	23.02	A
ATOM	1983	C	SER	A	255	-26.008	40.146	1.773	1.00	20.74	A
ATOM	1984	O	SER	A	255	-25.224	41.057	1.518	1.00	20.84	A
ATOM	1985	N	LEU	A	256	-26.561	39.999	2.968	1.00	19.73	A
ATOM	1986	CA	LEU	A	256	-26.230	40.928	4.029	1.00	18.63	A
ATOM	1987	CB	LEU	A	256	-27.128	40.687	5.237	1.00	18.17	A
ATOM	1988	CG	LEU	A	256	-28.589	41.100	5.034	1.00	19.68	A
ATOM	1989	CD1	LEU	A	256	-29.429	40.636	6.204	1.00	22.12	A
ATOM	1990	CD2	LEU	A	256	-28.676	42.596	4.891	1.00	18.61	A
ATOM	1991	C	LEU	A	256	-24.760	40.769	4.409	1.00	19.74	A
ATOM	1992	O	LEU	A	256	-24.064	41.749	4.687	1.00	21.32	A
ATOM	1993	N	THR	A	257	-24.275	39.535	4.411	1.00	19.62	A
ATOM	1994	CA	THR	A	257	-22.882	39.294	4.765	1.00	19.40	A
ATOM	1995	CB	THR	A	257	-22.549	37.780	4.759	1.00	18.74	A
ATOM	1996	OG1	THR	A	257	-23.423	37.099	5.662	1.00	17.47	A
ATOM	1997	CG2	THR	A	257	-21.112	37.539	5.202	1.00	15.09	A
ATOM	1998	C	THR	A	257	-21.940	40.010	3.804	1.00	20.80	A
ATOM	1999	O	THR	A	257	-21.043	40.727	4.234	1.00	19.71	A
ATOM	2000	N	GLU	A	258	-22.157	39.817	2.504	1.00	22.95	A
ATOM	2001	CA	GLU	A	258	-21.313	40.417	1.458	1.00	25.25	A
ATOM	2002	CB	GLU	A	258	-21.558	39.728	0.103	1.00	26.99	A
ATOM	2003	CG	GLU	A	258	-21.060	38.299	0.026	1.00	29.72	A
ATOM	2004	CD	GLU	A	258	-19.583	38.188	0.341	1.00	30.28	A
ATOM	2005	OE1	GLU	A	258	-18.755	38.465	-0.554	1.00	28.93	A
ATOM	2006	OE2	GLU	A	258	-19.257	37.833	1.496	1.00	28.70	A
ATOM	2007	C	GLU	A	258	-21.478	41.913	1.245	1.00	24.91	A
ATOM	2008	O	GLU	A	258	-20.509	42.619	0.943	1.00	25.28	A
ATOM	2009	N	ARG	A	259	-22.701	42.399	1.398	1.00	22.96	A
ATOM	2010	CA	ARG	A	259	-22.967	43.801	1.152	1.00	22.92	A
ATOM	2011	CB	ARG	A	259	-24.328	43.939	0.458	1.00	22.13	A
ATOM	2012	CG	ARG	A	259	-24.535	42.979	-0.706	1.00	20.13	A
ATOM	2013	CD	ARG	A	259	-25.986	42.946	-1.158	1.00	18.03	A
ATOM	2014	NE	ARG	A	259	-26.422	44.261	-1.608	1.00	20.65	A
ATOM	2015	CZ	ARG	A	259	-27.661	44.559	-1.976	1.00	19.65	A
ATOM	2016	NH1	ARG	A	259	-28.602	43.629	-1.950	1.00	21.22	A
ATOM	2017	NH2	ARG	A	259	-27.957	45.789	-2.365	1.00	17.00	A
ATOM	2018	C	ARG	A	259	-22.927	44.684	2.390	1.00	23.89	A
ATOM	2019	O	ARG	A	259	-22.792	45.904	2.273	1.00	25.28	A
ATOM	2020	N	LEU	A	260	-23.027	44.087	3.575	1.00	23.48	A
ATOM	2021	CA	LEU	A	260	-23.036	44.888	4.800	1.00	21.43	A
ATOM	2022	CB	LEU	A	260	-24.472	44.973	5.346	1.00	18.72	A

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ATOM   2023  CG  LEU A 260     -24.687  45.753   6.650  1.00 17.21      A
ATOM   2024  CD1 LEU A 260     -24.223  47.178   6.463  1.00 14.86      A
ATOM   2025  CD2 LEU A 260     -26.160  45.710   7.066  1.00 15.44      A
ATOM   2026  C   LEU A 260     -22.106  44.475   5.936  1.00 21.14      A
ATOM   2027  O   LEU A 260     -21.315  45.283   6.422  1.00 20.71      A
ATOM   2028  N   TYR A 261     -22.192  43.222   6.360  1.00 20.71      A
ATOM   2029  CA  TYR A 261     -21.389  42.781   7.488  1.00 21.83      A
ATOM   2030  CB  TYR A 261     -21.880  41.411   7.962  1.00 21.87      A
ATOM   2031  CG  TYR A 261     -23.357  41.392   8.326  1.00 21.96      A
ATOM   2032  CD1 TYR A 261     -23.980  42.516   8.876  1.00 20.22      A
ATOM   2033  CE1 TYR A 261     -25.329  42.500   9.201  1.00 20.56      A
ATOM   2034  CD2 TYR A 261     -24.130  40.249   8.117  1.00 22.00      A
ATOM   2035  CE2 TYR A 261     -25.479  40.221   8.445  1.00 20.70      A
ATOM   2036  CZ  TYR A 261     -26.075  41.347   8.985  1.00 22.59      A
ATOM   2037  OH  TYR A 261     -27.412  41.305   9.315  1.00 23.57      A
ATOM   2038  C   TYR A 261     -19.869  42.787   7.343  1.00 22.65      A
ATOM   2039  O   TYR A 261     -19.181  43.252   8.247  1.00 24.05      A
ATOM   2040  N   ILE A 262     -19.338  42.296   6.223  1.00 22.63      A
ATOM   2041  CA  ILE A 262     -17.889  42.259   6.015  1.00 20.09      A
ATOM   2042  CB  ILE A 262     -17.526  41.448   4.781  1.00 18.72      A
ATOM   2043  CG2 ILE A 262     -18.017  40.034   4.926  1.00 18.16      A
ATOM   2044  CG1 ILE A 262     -18.134  42.101   3.553  1.00 18.94      A
ATOM   2045  CD1 ILE A 262     -17.798  41.378   2.277  1.00 21.67      A
ATOM   2046  C   ILE A 262     -17.258  43.640   5.850  1.00 20.63      A
ATOM   2047  O   ILE A 262     -16.059  43.816   6.109  1.00 22.25      A
ATOM   2048  N   GLY A 263     -18.050  44.610   5.404  1.00 19.33      A
ATOM   2049  CA  GLY A 263     -17.539  45.958   5.225  1.00 18.24      A
ATOM   2050  C   GLY A 263     -18.421  46.768   4.296  1.00 19.47      A
ATOM   2051  O   GLY A 263     -19.511  46.326   3.946  1.00 21.23      A
ATOM   2052  N   GLY A 264     -17.957  47.944   3.884  1.00 20.12      A
ATOM   2053  CA  GLY A 264     -18.742  48.779   2.989  1.00 20.95      A
ATOM   2054  C   GLY A 264     -18.395  50.257   3.106  1.00 23.30      A
ATOM   2055  O   GLY A 264     -17.593  50.653   3.963  1.00 25.52      A
ATOM   2056  N   PRO A 265     -18.995  51.114   2.272  1.00 22.13      A
ATOM   2057  CD  PRO A 265     -20.058  50.804   1.306  1.00 22.12      A
ATOM   2058  CA  PRO A 265     -18.727  52.553   2.301  1.00 21.16      A
ATOM   2059  CB  PRO A 265     -19.412  53.037   1.035  1.00 19.98      A
ATOM   2060  CG  PRO A 265     -20.598  52.177   0.973  1.00 20.98      A
ATOM   2061  C   PRO A 265     -19.253  53.257   3.555  1.00 20.47      A
ATOM   2062  O   PRO A 265     -20.251  52.841   4.132  1.00 21.57      A
ATOM   2063  N   LEU A 266     -18.575  54.321   3.974  1.00 19.53      A
ATOM   2064  CA  LEU A 266     -18.997  55.085   5.150  1.00 19.93      A
ATOM   2065  CB  LEU A 266     -17.873  55.117   6.190  1.00 18.20      A
ATOM   2066  CG  LEU A 266     -17.374  53.737   6.626  1.00 18.86      A
ATOM   2067  CD1 LEU A 266     -15.976  53.882   7.226  1.00 17.69      A
ATOM   2068  CD2 LEU A 266     -18.354  53.090   7.607  1.00 15.99      A
ATOM   2069  C   LEU A 266     -19.380  56.517   4.748  1.00 20.43      A
ATOM   2070  O   LEU A 266     -18.604  57.210   4.091  1.00 20.62      A
ATOM   2071  N   THR A 267     -20.576  56.950   5.147  1.00 21.67      A
ATOM   2072  CA  THR A 267     -21.072  58.287   4.820  1.00 23.84      A
ATOM   2073  CB  THR A 267     -22.340  58.196   3.920  1.00 22.92      A
ATOM   2074  OG1 THR A 267     -22.013  57.507   2.704  1.00 20.39      A
ATOM   2075  CG2 THR A 267     -22.886  59.596   3.593  1.00 18.74      A
ATOM   2076  C   THR A 267     -21.412  59.099   6.075  1.00 26.88      A
ATOM   2077  O   THR A 267     -22.091  58.602   6.973  1.00 28.08      A
ATOM   2078  N   ASN A 268     -20.943  60.346   6.142  1.00 29.34      A
ATOM   2079  CA  ASN A 268     -21.242  61.170   7.309  1.00 31.30      A
ATOM   2080  CB  ASN A 268     -20.221  62.309   7.488  1.00 32.99      A
ATOM   2081  CG  ASN A 268     -20.214  63.301   6.328  1.00 35.24      A
ATOM   2082  OD1 ASN A 268     -21.262  63.651   5.778  1.00 34.18      A
ATOM   2083  ND2 ASN A 268     -19.024  63.778   5.970  1.00 34.52      A
ATOM   2084  C   ASN A 268     -22.652  61.723   7.195  1.00 31.50      A
ATOM   2085  O   ASN A 268     -23.364  61.420   6.242  1.00 31.75      A
ATOM   2086  N   SER A 269     -23.050  62.528   8.173  1.00 32.82      A
ATOM   2087  CA  SER A 269     -24.390  63.107   8.213  1.00 33.28      A
ATOM   2088  CB  SER A 269     -24.625  63.744   9.583  1.00 34.02      A
ATOM   2089  OG  SER A 269     -23.613  64.695   9.873  1.00 34.41      A
ATOM   2090  C   SER A 269     -24.683  64.133   7.121  1.00 33.92      A
ATOM   2091  O   SER A 269     -25.837  64.497   6.897  1.00 33.48      A
ATOM   2092  N   LYS A 270     -23.642  64.611   6.451  1.00 34.93      A
ATOM   2093  CA  LYS A 270     -23.831  65.590   5.390  1.00 35.69      A
ATOM   2094  CB  LYS A 270     -22.661  66.579   5.372  1.00 37.32      A
ATOM   2095  CG  LYS A 270     -22.557  67.393   6.654  1.00 40.15      A
ATOM   2096  CD  LYS A 270     -21.538  68.510   6.562  1.00 41.29      A
ATOM   2097  CE  LYS A 270     -21.461  69.250   7.890  1.00 44.61      A
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ATOM	2098	NZ	LYS	A	270	-20.637	70.506	7.840	1.00	46.72	A
ATOM	2099	C	LYS	A	270	-23.974	64.916	4.028	1.00	34.67	A
ATOM	2100	O	LYS	A	270	-24.296	65.577	3.035	1.00	35.62	A
ATOM	2101	N	GLY	A	271	-23.745	63.605	3.985	1.00	31.51	A
ATOM	2102	CA	GLY	A	271	-23.855	62.885	2.734	1.00	29.43	A
ATOM	2103	C	GLY	A	271	-22.525	62.733	2.024	1.00	29.42	A
ATOM	2104	O	GLY	A	271	-22.468	62.269	0.890	1.00	29.62	A
ATOM	2105	N	GLN	A	272	-21.450	63.133	2.689	1.00	30.04	A
ATOM	2106	CA	GLN	A	272	-20.125	63.029	2.114	1.00	29.91	A
ATOM	2107	CB	GLN	A	272	-19.189	64.042	2.785	1.00	30.60	A
ATOM	2108	CG	GLN	A	272	-19.716	65.480	2.724	1.00	32.09	A
ATOM	2109	CD	GLN	A	272	-18.813	66.501	3.420	1.00	34.38	A
ATOM	2110	OE1	GLN	A	272	-18.566	66.432	4.631	1.00	34.64	A
ATOM	2111	NE2	GLN	A	272	-18.329	67.464	2.650	1.00	34.43	A
ATOM	2112	C	GLN	A	272	-19.639	61.605	2.330	1.00	30.70	A
ATOM	2113	O	GLN	A	272	-20.227	60.858	3.100	1.00	31.20	A
ATOM	2114	N	ASN	A	273	-18.561	61.243	1.647	1.00	32.00	A
ATOM	2115	CA	ASN	A	273	-17.976	59.909	1.721	1.00	31.71	A
ATOM	2116	CB	ASN	A	273	-17.604	59.499	0.292	1.00	31.18	A
ATOM	2117	CG	ASN	A	273	-16.886	58.182	0.216	1.00	32.50	A
ATOM	2118	OD1	ASN	A	273	-16.521	57.744	-0.867	1.00	33.56	A
ATOM	2119	ND2	ASN	A	273	-16.675	57.538	1.357	1.00	34.31	A
ATOM	2120	C	ASN	A	273	-16.746	59.913	2.650	1.00	31.68	A
ATOM	2121	O	ASN	A	273	-15.670	60.347	2.248	1.00	33.09	A
ATOM	2122	N	CYS	A	274	-16.911	59.424	3.882	1.00	31.13	A
ATOM	2123	CA	CYS	A	274	-15.826	59.388	4.879	1.00	31.57	A
ATOM	2124	CB	CYS	A	274	-16.373	59.107	6.272	1.00	31.03	A
ATOM	2125	SG	CYS	A	274	-17.288	60.431	6.973	1.00	40.13	A
ATOM	2126	C	CYS	A	274	-14.742	58.367	4.631	1.00	30.35	A
ATOM	2127	O	CYS	A	274	-13.562	58.608	4.904	1.00	30.17	A
ATOM	2128	N	GLY	A	275	-15.151	57.206	4.146	1.00	29.78	A
ATOM	2129	CA	GLY	A	275	-14.183	56.163	3.897	1.00	29.35	A
ATOM	2130	C	GLY	A	275	-14.794	54.802	3.670	1.00	27.68	A
ATOM	2131	O	GLY	A	275	-15.885	54.676	3.115	1.00	26.49	A
ATOM	2132	N	TYR	A	276	-14.091	53.778	4.131	1.00	27.49	A
ATOM	2133	CA	TYR	A	276	-14.539	52.415	3.934	1.00	27.16	A
ATOM	2134	CB	TYR	A	276	-13.833	51.860	2.705	1.00	25.27	A
ATOM	2135	CG	TYR	A	276	-14.538	50.701	2.085	1.00	26.18	A
ATOM	2136	CD1	TYR	A	276	-15.503	50.899	1.102	1.00	24.49	A
ATOM	2137	CE1	TYR	A	276	-16.172	49.839	0.544	1.00	25.63	A
ATOM	2138	CD2	TYR	A	276	-14.262	49.401	2.497	1.00	26.00	A
ATOM	2139	CE2	TYR	A	276	-14.927	48.334	1.949	1.00	26.80	A
ATOM	2140	CZ	TYR	A	276	-15.884	48.554	0.970	1.00	26.71	A
ATOM	2141	OH	TYR	A	276	-16.557	47.481	0.436	1.00	27.73	A
ATOM	2142	C	TYR	A	276	-14.268	51.505	5.134	1.00	27.20	A
ATOM	2143	O	TYR	A	276	-13.154	51.484	5.667	1.00	27.66	A
ATOM	2144	N	ARG	A	277	-15.290	50.742	5.529	1.00	26.70	A
ATOM	2145	CA	ARG	A	277	-15.221	49.794	6.653	1.00	25.71	A
ATOM	2146	CB	ARG	A	277	-16.565	49.770	7.388	1.00	25.49	A
ATOM	2147	CG	ARG	A	277	-16.733	48.657	8.407	1.00	25.51	A
ATOM	2148	CD	ARG	A	277	-18.081	48.781	9.108	1.00	26.33	A
ATOM	2149	NE	ARG	A	277	-19.206	48.742	8.175	1.00	25.50	A
ATOM	2150	CZ	ARG	A	277	-19.670	47.633	7.600	1.00	26.71	A
ATOM	2151	NH1	ARG	A	277	-19.116	46.455	7.860	1.00	26.63	A
ATOM	2152	NH2	ARG	A	277	-20.687	47.699	6.750	1.00	26.28	A
ATOM	2153	C	ARG	A	277	-14.903	48.383	6.170	1.00	25.65	A
ATOM	2154	O	ARG	A	277	-15.431	47.944	5.150	1.00	27.94	A
ATOM	2155	N	ARG	A	278	-14.034	47.679	6.887	1.00	23.89	A
ATOM	2156	CA	ARG	A	278	-13.687	46.301	6.528	1.00	24.02	A
ATOM	2157	CB	ARG	A	278	-12.327	46.228	5.823	1.00	23.97	A
ATOM	2158	CG	ARG	A	278	-12.397	46.602	4.366	1.00	27.56	A
ATOM	2159	CD	ARG	A	278	-11.037	46.487	3.689	1.00	30.83	A
ATOM	2160	NE	ARG	A	278	-10.853	47.547	2.697	1.00	33.29	A
ATOM	2161	CZ	ARG	A	278	-10.657	48.831	3.004	1.00	34.35	A
ATOM	2162	NH1	ARG	A	278	-10.610	49.210	4.284	1.00	33.65	A
ATOM	2163	NH2	ARG	A	278	-10.530	49.741	2.037	1.00	31.63	A
ATOM	2164	C	ARG	A	278	-13.650	45.447	7.786	1.00	22.45	A
ATOM	2165	O	ARG	A	278	-12.939	44.438	7.848	1.00	23.02	A
ATOM	2166	N	CYS	A	279	-14.413	45.875	8.787	1.00	19.42	A
ATOM	2167	CA	CYS	A	279	-14.486	45.186	10.063	1.00	18.88	A
ATOM	2168	CB	CYS	A	279	-13.527	45.825	11.073	1.00	16.88	A
ATOM	2169	SG	CYS	A	279	-13.931	47.553	11.427	1.00	18.80	A
ATOM	2170	C	CYS	A	279	-15.917	45.314	10.566	1.00	19.76	A
ATOM	2171	O	CYS	A	279	-16.791	45.840	9.865	1.00	17.46	A
ATOM	2172	N	ARG	A	280	-16.136	44.867	11.799	1.00	19.79	A

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ATOM   2173  CA  ARG A 280     -17.456  44.893  12.397  1.00 19.90      A
ATOM   2174  CB  ARG A 280     -17.411  44.346  13.819  1.00 19.57      A
ATOM   2175  CG  ARG A 280     -18.777  44.261  14.484  1.00 19.74      A
ATOM   2176  CD  ARG A 280     -19.566  43.086  13.960  1.00 19.76      A
ATOM   2177  NE  ARG A 280     -19.014  41.817  14.434  1.00 21.22      A
ATOM   2178  CZ  ARG A 280     -19.292  40.626  13.908  1.00 20.14      A
ATOM   2179  NH1 ARG A 280     -20.120  40.516  12.879  1.00 21.13      A
ATOM   2180  NH2 ARG A 280     -18.740  39.538  14.413  1.00 20.26      A
ATOM   2181  C   ARG A 280     -18.079  46.268  12.433  1.00 21.17      A
ATOM   2182  O   ARG A 280     -17.436  47.252  12.812  1.00 21.19      A
ATOM   2183  N   ALA A 281     -19.340  46.319  12.014  1.00 21.95      A
ATOM   2184  CA  ALA A 281     -20.129  47.536  12.034  1.00 21.83      A
ATOM   2185  CB  ALA A 281     -21.137  47.516  10.919  1.00 22.40      A
ATOM   2186  C   ALA A 281     -20.828  47.426  13.384  1.00 22.85      A
ATOM   2187  O   ALA A 281     -21.542  46.462  13.641  1.00 22.30      A
ATOM   2188  N   SER A 282     -20.604  48.405  14.246  1.00 23.99      A
ATOM   2189  CA  SER A 282     -21.173  48.408  15.585  1.00 24.65      A
ATOM   2190  CB  SER A 282     -20.618  49.577  16.366  1.00 24.78      A
ATOM   2191  OG  SER A 282     -21.186  50.765  15.857  1.00 27.13      A
ATOM   2192  C   SER A 282     -22.686  48.513  15.635  1.00 24.33      A
ATOM   2193  O   SER A 282     -23.310  48.136  16.634  1.00 24.72      A
ATOM   2194  N   GLY A 283     -23.279  49.031  14.572  1.00 23.53      A
ATOM   2195  CA  GLY A 283     -24.715  49.205  14.587  1.00 22.38      A
ATOM   2196  C   GLY A 283     -25.601  48.323  13.736  1.00 21.68      A
ATOM   2197  O   GLY A 283     -26.510  48.836  13.089  1.00 22.50      A
ATOM   2198  N   VAL A 284     -25.348  47.018  13.704  1.00 19.52      A
ATOM   2199  CA  VAL A 284     -26.219  46.132  12.946  1.00 19.52      A
ATOM   2200  CB  VAL A 284     -25.492  45.437  11.774  1.00 21.32      A
ATOM   2201  CG1 VAL A 284     -25.129  46.467  10.711  1.00 18.48      A
ATOM   2202  CG2 VAL A 284     -24.253  44.700  12.278  1.00 23.23      A
ATOM   2203  C   VAL A 284     -26.795  45.104  13.905  1.00 19.80      A
ATOM   2204  O   VAL A 284     -26.370  45.018  15.060  1.00 20.69      A
ATOM   2205  N   LEU A 285     -27.772  44.340  13.432  1.00 19.51      A
ATOM   2206  CA  LEU A 285     -28.440  43.343  14.254  1.00 19.29      A
ATOM   2207  CB  LEU A 285     -29.635  42.781  13.487  1.00 19.74      A
ATOM   2208  CG  LEU A 285     -30.504  41.737  14.192  1.00 20.07      A
ATOM   2209  CD1 LEU A 285     -31.073  42.322  15.463  1.00 18.55      A
ATOM   2210  CD2 LEU A 285     -31.613  41.283  13.269  1.00 17.21      A
ATOM   2211  C   LEU A 285     -27.542  42.202  14.700  1.00 20.53      A
ATOM   2212  O   LEU A 285     -27.747  41.637  15.772  1.00 21.54      A
ATOM   2213  N   THR A 286     -26.550  41.862  13.882  1.00 21.74      A
ATOM   2214  CA  THR A 286     -25.645  40.752  14.194  1.00 22.28      A
ATOM   2215  CB  THR A 286     -25.170  40.035  12.918  1.00 22.06      A
ATOM   2216  OG1 THR A 286     -24.717  41.010  11.969  1.00 22.80      A
ATOM   2217  CG2 THR A 286     -26.288  39.204  12.320  1.00 24.17      A
ATOM   2218  C   THR A 286     -24.398  41.129  14.962  1.00 22.60      A
ATOM   2219  O   THR A 286     -23.540  40.270  15.184  1.00 22.47      A
ATOM   2220  N   THR A 287     -24.289  42.394  15.362  1.00 21.29      A
ATOM   2221  CA  THR A 287     -23.109  42.860  16.094  1.00 22.24      A
ATOM   2222  CB  THR A 287     -23.226  44.356  16.402  1.00 24.45      A
ATOM   2223  OG1 THR A 287     -23.450  45.068  15.179  1.00 29.81      A
ATOM   2224  CG2 THR A 287     -21.954  44.876  17.061  1.00 22.23      A
ATOM   2225  C   THR A 287     -22.851  42.111  17.404  1.00 20.76      A
ATOM   2226  O   THR A 287     -21.732  41.715  17.686  1.00 18.52      A
ATOM   2227  N   SER A 288     -23.893  41.926  18.203  1.00 21.65      A
ATOM   2228  CA  SER A 288     -23.766  41.231  19.471  1.00 22.23      A
ATOM   2229  CB  SER A 288     -25.040  41.421  20.299  1.00 23.02      A
ATOM   2230  OG  SER A 288     -24.874  40.961  21.628  1.00 24.95      A
ATOM   2231  C   SER A 288     -23.517  39.750  19.239  1.00 22.68      A
ATOM   2232  O   SER A 288     -22.608  39.167  19.822  1.00 23.14      A
ATOM   2233  N   CYS A 289     -24.323  39.148  18.378  1.00 22.52      A
ATOM   2234  CA  CYS A 289     -24.189  37.730  18.086  1.00 23.79      A
ATOM   2235  CB  CYS A 289     -25.291  37.300  17.123  1.00 24.55      A
ATOM   2236  SG  CYS A 289     -25.442  35.529  16.936  1.00 30.37      A
ATOM   2237  C   CYS A 289     -22.820  37.389  17.500  1.00 23.66      A
ATOM   2238  O   CYS A 289     -22.160  36.457  17.949  1.00 24.27      A
ATOM   2239  N   GLY A 290     -22.386  38.148  16.503  1.00 23.69      A
ATOM   2240  CA  GLY A 290     -21.099  37.871  15.897  1.00 22.62      A
ATOM   2241  C   GLY A 290     -19.939  38.029  16.859  1.00 21.83      A
ATOM   2242  O   GLY A 290     -19.044  37.185  16.926  1.00 21.32      A
ATOM   2243  N   ASN A 291     -19.945  39.116  17.613  1.00 21.06      A
ATOM   2244  CA  ASN A 291     -18.867  39.340  18.548  1.00 21.35      A
ATOM   2245  CB  ASN A 291     -18.986  40.723  19.193  1.00 19.69      A
ATOM   2246  CG  ASN A 291     -18.604  41.849  18.236  1.00 18.84      A
ATOM   2247  OD1 ASN A 291     -18.062  41.600  17.162  1.00 15.70      A
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ATOM   2248  ND2 ASN A 291     -18.873  43.096  18.633  1.00 19.70      A
ATOM   2249  C   ASN A 291     -18.863  38.248  19.599  1.00 22.14      A
ATOM   2250  O   ASN A 291     -17.802  37.735  19.947  1.00 23.35      A
ATOM   2251  N   THR A 292     -20.034  37.869  20.099  1.00 22.11      A
ATOM   2252  CA  THR A 292     -20.069  36.809  21.105  1.00 21.40      A
ATOM   2253  CB  THR A 292     -21.486  36.568  21.666  1.00 19.64      A
ATOM   2254  OG1 THR A 292     -21.985  37.777  22.247  1.00 19.04      A
ATOM   2255  CG2 THR A 292     -21.448  35.505  22.742  1.00 18.95      A
ATOM   2256  C   THR A 292     -19.550  35.516  20.486  1.00 21.97      A
ATOM   2257  O   THR A 292     -18.745  34.816  21.104  1.00 22.61      A
ATOM   2258  N   LEU A 293     -19.993  35.203  19.267  1.00 20.23      A
ATOM   2259  CA  LEU A 293     -19.536  33.987  18.598  1.00 18.69      A
ATOM   2260  CB  LEU A 293     -20.260  33.770  17.263  1.00 16.81      A
ATOM   2261  CG  LEU A 293     -21.728  33.326  17.268  1.00 18.19      A
ATOM   2262  CD1 LEU A 293     -22.147  33.014  15.839  1.00 19.20      A
ATOM   2263  CD2 LEU A 293     -21.926  32.094  18.146  1.00 16.36      A
ATOM   2264  C   LEU A 293     -18.042  34.020  18.332  1.00 18.40      A
ATOM   2265  O   LEU A 293     -17.313  33.082  18.679  1.00 18.88      A
ATOM   2266  N   THR A 294     -17.594  35.100  17.704  1.00 16.35      A
ATOM   2267  CA  THR A 294     -16.198  35.252  17.358  1.00 15.28      A
ATOM   2268  CB  THR A 294     -15.973  36.551  16.611  1.00 16.04      A
ATOM   2269  OG1 THR A 294     -16.698  36.510  15.378  1.00 17.98      A
ATOM   2270  CG2 THR A 294     -14.497  36.760  16.337  1.00 14.60      A
ATOM   2271  C   THR A 294     -15.313  35.235  18.575  1.00 16.61      A
ATOM   2272  O   THR A 294     -14.316  34.524  18.612  1.00 17.25      A
ATOM   2273  N   CYS A 295     -15.670  36.018  19.581  1.00 18.16      A
ATOM   2274  CA  CYS A 295     -14.861  36.055  20.790  1.00 20.18      A
ATOM   2275  CB  CYS A 295     -15.381  37.113  21.762  1.00 21.99      A
ATOM   2276  SG  CYS A 295     -14.553  37.083  23.368  1.00 21.23      A
ATOM   2277  C   CYS A 295     -14.821  34.704  21.486  1.00 19.89      A
ATOM   2278  O   CYS A 295     -13.800  34.329  22.033  1.00 20.93      A
ATOM   2279  N   TYR A 296     -15.933  33.977  21.472  1.00 19.51      A
ATOM   2280  CA  TYR A 296     -15.985  32.663  22.107  1.00 18.64      A
ATOM   2281  CB  TYR A 296     -17.442  32.152  22.147  1.00 15.55      A
ATOM   2282  CG  TYR A 296     -17.606  30.682  22.484  1.00 12.22      A
ATOM   2283  CD1 TYR A 296     -17.469  29.716  21.505  1.00 12.80      A
ATOM   2284  CE1 TYR A 296     -17.602  28.372  21.798  1.00 14.73      A
ATOM   2285  CD2 TYR A 296     -17.885  30.258  23.784  1.00 13.53      A
ATOM   2286  CE2 TYR A 296     -18.021  28.905  24.095  1.00  9.41      A
ATOM   2287  CZ  TYR A 296     -17.876  27.971  23.091  1.00 13.19      A
ATOM   2288  OH  TYR A 296     -17.983  26.623  23.340  1.00 14.11      A
ATOM   2289  C   TYR A 296     -15.085  31.693  21.347  1.00 20.13      A
ATOM   2290  O   TYR A 296     -14.323  30.926  21.944  1.00 20.15      A
ATOM   2291  N   LEU A 297     -15.174  31.738  20.023  1.00 21.28      A
ATOM   2292  CA  LEU A 297     -14.377  30.862  19.186  1.00 22.69      A
ATOM   2293  CB  LEU A 297     -14.662  31.143  17.711  1.00 22.67      A
ATOM   2294  CG  LEU A 297     -13.687  30.560  16.682  1.00 22.30      A
ATOM   2295  CD1 LEU A 297     -13.559  29.050  16.834  1.00 20.85      A
ATOM   2296  CD2 LEU A 297     -14.197  30.922  15.303  1.00 22.82      A
ATOM   2297  C   LEU A 297     -12.901  31.055  19.477  1.00 23.42      A
ATOM   2298  O   LEU A 297     -12.231  30.133  19.928  1.00 25.13      A
ATOM   2299  N   LYS A 298     -12.403  32.261  19.228  1.00 23.18      A
ATOM   2300  CA  LYS A 298     -11.000  32.571  19.461  1.00 22.81      A
ATOM   2301  CB  LYS A 298     -10.727  34.056  19.179  1.00 21.68      A
ATOM   2302  CG  LYS A 298     -10.973  34.457  17.718  1.00 17.75      A
ATOM   2303  CD  LYS A 298     -10.679  35.921  17.471  1.00 16.98      A
ATOM   2304  CE  LYS A 298     -11.136  36.342  16.087  1.00 18.14      A
ATOM   2305  NZ  LYS A 298     -10.897  37.789  15.854  1.00 17.78      A
ATOM   2306  C   LYS A 298     -10.547  32.202  20.869  1.00 23.05      A
ATOM   2307  O   LYS A 298      -9.556  31.498  21.027  1.00 25.93      A
ATOM   2308  N   ALA A 299     -11.274  32.648  21.887  1.00 22.57      A
ATOM   2309  CA  ALA A 299     -10.912  32.333  23.274  1.00 22.92      A
ATOM   2310  CB  ALA A 299     -11.883  33.022  24.257  1.00 20.31      A
ATOM   2311  C   ALA A 299     -10.855  30.828  23.562  1.00 22.45      A
ATOM   2312  O   ALA A 299      -9.910  30.356  24.190  1.00 23.66      A
ATOM   2313  N   THR A 300     -11.848  30.071  23.108  1.00 21.28      A
ATOM   2314  CA  THR A 300     -11.839  28.634  23.354  1.00 22.20      A
ATOM   2315  CB  THR A 300     -13.064  27.932  22.694  1.00 22.05      A
ATOM   2316  OG1 THR A 300     -14.275  28.476  23.225  1.00 21.60      A
ATOM   2317  CG2 THR A 300     -13.055  26.452  22.979  1.00 17.78      A
ATOM   2318  C   THR A 300     -10.542  28.015  22.817  1.00 23.65      A
ATOM   2319  O   THR A 300      -9.833  27.311  23.542  1.00 22.80      A
ATOM   2320  N   ALA A 301     -10.234  28.292  21.551  1.00 24.45      A
ATOM   2321  CA  ALA A 301      -9.027  27.775  20.909  1.00 24.82      A
ATOM   2322  CB  ALA A 301      -9.033  28.121  19.418  1.00 22.24      A
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ATOM   2323  C   ALA A 301      -7.766  28.326  21.580  1.00 25.90      A
ATOM   2324  O   ALA A 301      -6.769  27.610  21.720  1.00 27.42      A
ATOM   2325  N   ALA A 302      -7.793  29.590  21.991  1.00 24.64      A
ATOM   2326  CA  ALA A 302      -6.626  30.145  22.663  1.00 24.74      A
ATOM   2327  CB  ALA A 302      -6.811  31.633  22.950  1.00 22.48      A
ATOM   2328  C   ALA A 302      -6.453  29.372  23.966  1.00 25.98      A
ATOM   2329  O   ALA A 302      -5.339  28.991  24.319  1.00 27.85      A
ATOM   2330  N   CYS A 303      -7.554  29.125  24.676  1.00 25.63      A
ATOM   2331  CA  CYS A 303      -7.476  28.391  25.934  1.00 25.27      A
ATOM   2332  CB  CYS A 303      -8.869  28.148  26.515  1.00 24.41      A
ATOM   2333  SG  CYS A 303      -9.363  29.349  27.766  1.00 25.60      A
ATOM   2334  C   CYS A 303      -6.753  27.062  25.785  1.00 25.70      A
ATOM   2335  O   CYS A 303      -5.993  26.657  26.667  1.00 26.09      A
ATOM   2336  N   ARG A 304      -6.990  26.378  24.672  1.00 25.54      A
ATOM   2337  CA  ARG A 304      -6.337  25.101  24.438  1.00 25.59      A
ATOM   2338  CB  ARG A 304      -6.986  24.404  23.248  1.00 22.04      A
ATOM   2339  CG  ARG A 304      -8.474  24.214  23.416  1.00 19.06      A
ATOM   2340  CD  ARG A 304      -9.058  23.344  22.328  1.00 18.81      A
ATOM   2341  NE  ARG A 304     -10.489  23.115  22.511  1.00 18.28      A
ATOM   2342  CZ  ARG A 304     -11.228  22.343  21.721  1.00 19.86      A
ATOM   2343  NH1 ARG A 304     -10.680  21.717  20.684  1.00 20.04      A
ATOM   2344  NH2 ARG A 304     -12.519  22.189  21.970  1.00 19.26      A
ATOM   2345  C   ARG A 304      -4.849  25.343  24.186  1.00 27.00      A
ATOM   2346  O   ARG A 304      -3.980  24.761  24.842  1.00 28.11      A
ATOM   2347  N   ALA A 305      -4.557  26.231  23.249  1.00 27.15      A
ATOM   2348  CA  ALA A 305      -3.177  26.542  22.929  1.00 27.66      A
ATOM   2349  CB  ALA A 305      -3.134  27.707  21.949  1.00 27.56      A
ATOM   2350  C   ALA A 305      -2.353  26.869  24.182  1.00 27.32      A
ATOM   2351  O   ALA A 305      -1.183  26.503  24.279  1.00 27.59      A
ATOM   2352  N   ALA A 306      -2.969  27.555  25.136  1.00 26.76      A
ATOM   2353  CA  ALA A 306      -2.287  27.946  26.360  1.00 27.43      A
ATOM   2354  CB  ALA A 306      -2.975  29.157  26.966  1.00 28.47      A
ATOM   2355  C   ALA A 306      -2.224  26.822  27.385  1.00 27.97      A
ATOM   2356  O   ALA A 306      -1.387  26.843  28.283  1.00 27.64      A
ATOM   2357  N   LYS A 307      -3.113  25.845  27.254  1.00 29.08      A
ATOM   2358  CA  LYS A 307      -3.141  24.715  28.173  1.00 30.81      A
ATOM   2359  CB  LYS A 307      -1.733  24.146  28.370  1.00 32.22      A
ATOM   2360  CG  LYS A 307      -1.315  23.172  27.290  1.00 34.73      A
ATOM   2361  CD  LYS A 307       0.110  23.422  26.817  1.00 37.64      A
ATOM   2362  CE  LYS A 307       0.500  22.389  25.759  1.00 41.53      A
ATOM   2363  NZ  LYS A 307      -0.571  22.234  24.709  1.00 43.97      A
ATOM   2364  C   LYS A 307      -3.757  25.007  29.532  1.00 31.48      A
ATOM   2365  O   LYS A 307      -3.414  24.365  30.522  1.00 30.82      A
ATOM   2366  N   LEU A 308      -4.661  25.977  29.589  1.00 32.59      A
ATOM   2367  CA  LEU A 308      -5.339  26.282  30.839  1.00 33.09      A
ATOM   2368  CB  LEU A 308      -6.223  27.512  30.677  1.00 32.07      A
ATOM   2369  CG  LEU A 308      -5.514  28.867  30.811  1.00 32.54      A
ATOM   2370  CD1 LEU A 308      -4.077  28.778  30.331  1.00 32.03      A
ATOM   2371  CD2 LEU A 308      -6.288  29.913  30.012  1.00 31.33      A
ATOM   2372  C   LEU A 308      -6.168  25.042  31.153  1.00 35.46      A
ATOM   2373  O   LEU A 308      -6.764  24.428  30.265  1.00 33.57      A
ATOM   2374  N   GLN A 309      -6.195  24.660  32.419  1.00 38.49      A
ATOM   2375  CA  GLN A 309      -6.904  23.456  32.796  1.00 40.70      A
ATOM   2376  CB  GLN A 309      -6.090  22.724  33.870  1.00 42.44      A
ATOM   2377  CG  GLN A 309      -5.940  21.217  33.669  1.00 48.24      A
ATOM   2378  CD  GLN A 309      -4.994  20.819  32.516  1.00 50.97      A
ATOM   2379  OE1 GLN A 309      -4.714  19.629  32.316  1.00 51.57      A
ATOM   2380  NE2 GLN A 309      -4.505  21.809  31.762  1.00 51.69      A
ATOM   2381  C   GLN A 309      -8.325  23.693  33.290  1.00 41.46      A
ATOM   2382  O   GLN A 309      -8.572  24.597  34.097  1.00 42.73      A
ATOM   2383  N   ASP A 310      -9.255  22.882  32.782  1.00 40.84      A
ATOM   2384  CA  ASP A 310     -10.656  22.922  33.197  1.00 38.78      A
ATOM   2385  CB  ASP A 310     -10.741  22.391  34.632  1.00 41.02      A
ATOM   2386  CG  ASP A 310     -12.135  21.955  35.018  1.00 42.95      A
ATOM   2387  OD1 ASP A 310     -12.372  21.757  36.229  1.00 43.49      A
ATOM   2388  OD2 ASP A 310     -12.988  21.800  34.118  1.00 44.26      A
ATOM   2389  C   ASP A 310     -11.301  24.309  33.118  1.00 36.56      A
ATOM   2390  O   ASP A 310     -11.959  24.745  34.060  1.00 36.01      A
ATOM   2391  N   CYS A 311     -11.129  24.985  31.987  1.00 34.70      A
ATOM   2392  CA  CYS A 311     -11.673  26.333  31.797  1.00 32.52      A
ATOM   2393  CB  CYS A 311     -11.094  26.959  30.528  1.00 29.86      A
ATOM   2394  SG  CYS A 311      -9.311  27.128  30.535  1.00 31.37      A
ATOM   2395  C   CYS A 311     -13.189  26.420  31.714  1.00 31.44      A
ATOM   2396  O   CYS A 311     -13.837  25.545  31.146  1.00 31.72      A
ATOM   2397  N   THR A 312     -13.750  27.477  32.293  1.00 29.86      A
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ATOM	2398	CA	THR	A	312	-15.189	27.713	32.230	1.00	28.66	A
ATOM	2399	CB	THR	A	312	-15.880	27.586	33.597	1.00	28.90	A
ATOM	2400	OG1	THR	A	312	-15.770	26.240	34.069	1.00	26.19	A
ATOM	2401	CG2	THR	A	312	-17.364	27.951	33.473	1.00	27.68	A
ATOM	2402	C	THR	A	312	-15.279	29.147	31.754	1.00	28.76	A
ATOM	2403	O	THR	A	312	-14.745	30.052	32.398	1.00	29.24	A
ATOM	2404	N	MET	A	313	-15.950	29.356	30.629	1.00	28.28	A
ATOM	2405	CA	MET	A	313	-16.039	30.686	30.049	1.00	28.37	A
ATOM	2406	CB	MET	A	313	-15.573	30.643	28.600	1.00	29.33	A
ATOM	2407	CG	MET	A	313	-14.288	31.360	28.332	1.00	30.41	A
ATOM	2408	SD	MET	A	313	-13.621	30.794	26.763	1.00	35.64	A
ATOM	2409	CE	MET	A	313	-14.983	31.208	25.656	1.00	31.13	A
ATOM	2410	C	MET	A	313	-17.391	31.348	30.072	1.00	27.68	A
ATOM	2411	O	MET	A	313	-18.435	30.685	30.041	1.00	29.16	A
ATOM	2412	N	LEU	A	314	-17.349	32.676	30.099	1.00	25.12	A
ATOM	2413	CA	LEU	A	314	-18.543	33.501	30.077	1.00	23.63	A
ATOM	2414	CB	LEU	A	314	-18.775	34.120	31.452	1.00	22.18	A
ATOM	2415	CG	LEU	A	314	-20.211	34.545	31.722	1.00	21.67	A
ATOM	2416	CD1	LEU	A	314	-21.109	33.342	31.577	1.00	21.50	A
ATOM	2417	CD2	LEU	A	314	-20.327	35.149	33.104	1.00	18.57	A
ATOM	2418	C	LEU	A	314	-18.257	34.573	29.024	1.00	23.14	A
ATOM	2419	O	LEU	A	314	-17.286	35.320	29.136	1.00	25.15	A
ATOM	2420	N	VAL	A	315	-19.080	34.617	27.983	1.00	21.66	A
ATOM	2421	CA	VAL	A	315	-18.899	35.574	26.897	1.00	21.00	A
ATOM	2422	CB	VAL	A	315	-18.613	34.855	25.540	1.00	22.68	A
ATOM	2423	CG1	VAL	A	315	-18.320	35.898	24.441	1.00	25.24	A
ATOM	2424	CG2	VAL	A	315	-17.455	33.893	25.678	1.00	21.33	A
ATOM	2425	C	VAL	A	315	-20.140	36.438	26.701	1.00	21.05	A
ATOM	2426	O	VAL	A	315	-21.263	35.928	26.660	1.00	19.22	A
ATOM	2427	N	ASN	A	316	-19.923	37.745	26.582	1.00	20.70	A
ATOM	2428	CA	ASN	A	316	-20.991	38.715	26.370	1.00	21.20	A
ATOM	2429	CB	ASN	A	316	-21.195	39.604	27.593	1.00	21.82	A
ATOM	2430	CG	ASN	A	316	-22.089	38.983	28.626	1.00	21.01	A
ATOM	2431	OD1	ASN	A	316	-21.664	38.137	29.411	1.00	21.54	A
ATOM	2432	ND2	ASN	A	316	-23.343	39.399	28.633	1.00	20.57	A
ATOM	2433	C	ASN	A	316	-20.510	39.594	25.249	1.00	23.20	A
ATOM	2434	O	ASN	A	316	-19.933	40.652	25.495	1.00	24.35	A
ATOM	2435	N	GLY	A	317	-20.747	39.182	24.015	1.00	23.64	A
ATOM	2436	CA	GLY	A	317	-20.263	39.988	22.918	1.00	23.50	A
ATOM	2437	C	GLY	A	317	-18.754	39.979	23.007	1.00	22.94	A
ATOM	2438	O	GLY	A	317	-18.143	38.912	23.014	1.00	24.93	A
ATOM	2439	N	ASP	A	318	-18.152	41.155	23.114	1.00	22.93	A
ATOM	2440	CA	ASP	A	318	-16.706	41.252	23.190	1.00	23.17	A
ATOM	2441	CB	ASP	A	318	-16.247	42.608	22.631	1.00	24.00	A
ATOM	2442	CG	ASP	A	318	-16.553	43.767	23.561	1.00	26.74	A
ATOM	2443	OD1	ASP	A	318	-17.692	43.875	24.047	1.00	29.12	A
ATOM	2444	OD2	ASP	A	318	-15.650	44.588	23.803	1.00	28.77	A
ATOM	2445	C	ASP	A	318	-16.165	41.025	24.603	1.00	23.16	A
ATOM	2446	O	ASP	A	318	-14.978	40.771	24.774	1.00	24.95	A
ATOM	2447	N	ASP	A	319	-17.027	41.080	25.615	1.00	23.22	A
ATOM	2448	CA	ASP	A	319	-16.576	40.869	26.997	1.00	23.49	A
ATOM	2449	CB	ASP	A	319	-17.617	41.396	27.990	1.00	25.44	A
ATOM	2450	CG	ASP	A	319	-17.010	41.775	29.344	1.00	26.78	A
ATOM	2451	OD1	ASP	A	319	-16.572	40.871	30.090	1.00	29.17	A
ATOM	2452	OD2	ASP	A	319	-16.967	42.984	29.664	1.00	24.87	A
ATOM	2453	C	ASP	A	319	-16.314	39.387	27.249	1.00	23.94	A
ATOM	2454	O	ASP	A	319	-17.131	38.532	26.897	1.00	23.55	A
ATOM	2455	N	LEU	A	320	-15.171	39.092	27.868	1.00	24.90	A
ATOM	2456	CA	LEU	A	320	-14.769	37.716	28.149	1.00	25.32	A
ATOM	2457	CB	LEU	A	320	-13.750	37.259	27.096	1.00	25.96	A
ATOM	2458	CG	LEU	A	320	-13.036	35.920	27.289	1.00	24.60	A
ATOM	2459	CD1	LEU	A	320	-14.022	34.768	27.147	1.00	24.65	A
ATOM	2460	CD2	LEU	A	320	-11.943	35.804	26.255	1.00	26.54	A
ATOM	2461	C	LEU	A	320	-14.154	37.538	29.529	1.00	25.44	A
ATOM	2462	O	LEU	A	320	-13.317	38.333	29.946	1.00	26.36	A
ATOM	2463	N	VAL	A	321	-14.568	36.486	30.229	1.00	25.16	A
ATOM	2464	CA	VAL	A	321	-14.025	36.180	31.547	1.00	26.25	A
ATOM	2465	CB	VAL	A	321	-14.937	36.703	32.696	1.00	25.92	A
ATOM	2466	CG1	VAL	A	321	-16.356	36.222	32.514	1.00	25.60	A
ATOM	2467	CG2	VAL	A	321	-14.403	36.224	34.029	1.00	26.68	A
ATOM	2468	C	VAL	A	321	-13.855	34.667	31.671	1.00	27.37	A
ATOM	2469	O	VAL	A	321	-14.765	33.905	31.368	1.00	29.74	A
ATOM	2470	N	VAL	A	322	-12.683	34.231	32.107	1.00	27.77	A
ATOM	2471	CA	VAL	A	322	-12.422	32.811	32.246	1.00	27.69	A
ATOM	2472	CB	VAL	A	322	-11.267	32.358	31.329	1.00	29.29	A

ATOM	2473	CG1	VAL	A	322	-11.054	30.855	31.457	1.00	29.14	A
ATOM	2474	CG2	VAL	A	322	-11.561	32.733	29.897	1.00	30.79	A
ATOM	2475	C	VAL	A	322	-12.025	32.485	33.671	1.00	28.02	A
ATOM	2476	O	VAL	A	322	-11.358	33.279	34.334	1.00	27.95	A
ATOM	2477	N	ILE	A	323	-12.444	31.308	34.124	1.00	27.61	A
ATOM	2478	CA	ILE	A	323	-12.135	30.799	35.454	1.00	26.26	A
ATOM	2479	CB	ILE	A	323	-13.383	30.790	36.345	1.00	24.48	A
ATOM	2480	CG2	ILE	A	323	-13.060	30.149	37.683	1.00	23.35	A
ATOM	2481	CG1	ILE	A	323	-13.880	32.225	36.535	1.00	23.19	A
ATOM	2482	CD1	ILE	A	323	-15.150	32.343	37.328	1.00	23.34	A
ATOM	2483	C	ILE	A	323	-11.662	29.374	35.216	1.00	27.00	A
ATOM	2484	O	ILE	A	323	-12.307	28.621	34.480	1.00	28.40	A
ATOM	2485	N	CYS	A	324	-10.544	28.995	35.820	1.00	26.85	A
ATOM	2486	CA	CYS	A	324	-10.017	27.653	35.599	1.00	29.24	A
ATOM	2487	CB	CYS	A	324	-9.090	27.673	34.380	1.00	29.83	A
ATOM	2488	SG	CYS	A	324	-7.684	28.833	34.527	1.00	33.93	A
ATOM	2489	C	CYS	A	324	-9.261	27.089	36.796	1.00	30.18	A
ATOM	2490	O	CYS	A	324	-9.143	27.737	37.830	1.00	31.28	A
ATOM	2491	N	GLU	A	325	-8.757	25.867	36.648	1.00	31.08	A
ATOM	2492	CA	GLU	A	325	-7.981	25.233	37.705	1.00	31.60	A
ATOM	2493	CB	GLU	A	325	-7.911	23.721	37.489	1.00	33.63	A
ATOM	2494	CG	GLU	A	325	-9.163	22.968	37.881	1.00	37.99	A
ATOM	2495	CD	GLU	A	325	-9.406	22.975	39.384	1.00	39.54	A
ATOM	2496	OE1	GLU	A	325	-10.337	22.274	39.831	1.00	41.50	A
ATOM	2497	OE2	GLU	A	325	-8.673	23.677	40.117	1.00	39.95	A
ATOM	2498	C	GLU	A	325	-6.571	25.803	37.684	1.00	30.82	A
ATOM	2499	O	GLU	A	325	-5.862	25.696	36.686	1.00	30.46	A
ATOM	2500	N	SER	A	326	-6.164	26.412	38.785	1.00	30.51	A
ATOM	2501	CA	SER	A	326	-4.832	26.985	38.858	1.00	31.06	A
ATOM	2502	CB	SER	A	326	-4.684	27.842	40.117	1.00	29.03	A
ATOM	2503	OG	SER	A	326	-3.371	28.360	40.216	1.00	27.68	A
ATOM	2504	C	SER	A	326	-3.771	25.896	38.871	1.00	33.39	A
ATOM	2505	O	SER	A	326	-3.984	24.803	39.406	1.00	34.84	A
ATOM	2506	N	ALA	A	327	-2.627	26.191	38.268	1.00	34.78	A
ATOM	2507	CA	ALA	A	327	-1.520	25.248	38.247	1.00	35.82	A
ATOM	2508	CB	ALA	A	327	-0.809	25.301	36.913	1.00	32.74	A
ATOM	2509	C	ALA	A	327	-0.605	25.733	39.360	1.00	36.60	A
ATOM	2510	O	ALA	A	327	-0.290	25.011	40.297	1.00	40.16	A
ATOM	2511	N	GLY	A	328	-0.218	26.991	39.253	1.00	36.86	A
ATOM	2512	CA	GLY	A	328	0.635	27.605	40.240	1.00	36.07	A
ATOM	2513	C	GLY	A	328	0.833	29.045	39.822	1.00	36.06	A
ATOM	2514	O	GLY	A	328	0.674	29.395	38.657	1.00	36.90	A
ATOM	2515	N	THR	A	329	1.177	29.890	40.771	1.00	35.94	A
ATOM	2516	CA	THR	A	329	1.396	31.289	40.470	1.00	36.59	A
ATOM	2517	CB	THR	A	329	2.197	31.953	41.603	1.00	36.11	A
ATOM	2518	OG1	THR	A	329	1.402	31.969	42.795	1.00	36.24	A
ATOM	2519	CG2	THR	A	329	2.563	33.369	41.239	1.00	37.14	A
ATOM	2520	C	THR	A	329	2.121	31.480	39.139	1.00	37.40	A
ATOM	2521	O	THR	A	329	1.623	32.178	38.255	1.00	37.39	A
ATOM	2522	N	GLN	A	330	3.284	30.844	38.996	1.00	38.98	A
ATOM	2523	CA	GLN	A	330	4.094	30.965	37.780	1.00	39.91	A
ATOM	2524	CB	GLN	A	330	5.489	30.355	37.991	1.00	42.59	A
ATOM	2525	CG	GLN	A	330	6.388	31.117	38.952	1.00	46.42	A
ATOM	2526	CD	GLN	A	330	6.668	32.536	38.488	1.00	50.68	A
ATOM	2527	OE1	GLN	A	330	5.740	33.290	38.164	1.00	53.24	A
ATOM	2528	NE2	GLN	A	330	7.952	32.915	38.462	1.00	52.28	A
ATOM	2529	C	GLN	A	330	3.451	30.314	36.570	1.00	38.85	A
ATOM	2530	O	GLN	A	330	3.343	30.928	35.507	1.00	38.93	A
ATOM	2531	N	GLU	A	331	3.040	29.064	36.728	1.00	37.77	A
ATOM	2532	CA	GLU	A	331	2.407	28.349	35.632	1.00	38.74	A
ATOM	2533	CB	GLU	A	331	1.879	26.989	36.109	1.00	41.25	A
ATOM	2534	CG	GLU	A	331	2.912	26.029	36.711	1.00	43.52	A
ATOM	2535	CD	GLU	A	331	3.587	26.579	37.957	1.00	45.33	A
ATOM	2536	OE1	GLU	A	331	2.967	27.409	38.653	1.00	45.14	A
ATOM	2537	OE2	GLU	A	331	4.736	26.168	38.244	1.00	44.89	A
ATOM	2538	C	GLU	A	331	1.249	29.187	35.066	1.00	37.06	A
ATOM	2539	O	GLU	A	331	1.179	29.423	33.856	1.00	37.89	A
ATOM	2540	N	ASP	A	332	0.356	29.636	35.950	1.00	32.37	A
ATOM	2541	CA	ASP	A	332	-0.799	30.445	35.569	1.00	29.79	A
ATOM	2542	CB	ASP	A	332	-1.560	30.915	36.818	1.00	30.34	A
ATOM	2543	CG	ASP	A	332	-2.338	29.801	37.496	1.00	30.08	A
ATOM	2544	OD1	ASP	A	332	-2.142	28.625	37.135	1.00	27.13	A
ATOM	2545	OD2	ASP	A	332	-3.143	30.109	38.402	1.00	30.78	A
ATOM	2546	C	ASP	A	332	-0.411	31.672	34.751	1.00	28.04	A
ATOM	2547	O	ASP	A	332	-1.034	31.973	33.733	1.00	27.25	A

ATOM	2548	N	ALA	A	333	0.606	32.390	35.216	1.00	25.76	A
ATOM	2549	CA	ALA	A	333	1.074	33.590	34.543	1.00	23.67	A
ATOM	2550	CB	ALA	A	333	2.131	34.239	35.368	1.00	22.00	A
ATOM	2551	C	ALA	A	333	1.624	33.269	33.155	1.00	25.26	A
ATOM	2552	O	ALA	A	333	1.327	33.959	32.172	1.00	24.26	A
ATOM	2553	N	ALA	A	334	2.436	32.221	33.079	1.00	24.86	A
ATOM	2554	CA	ALA	A	334	3.010	31.822	31.809	1.00	26.46	A
ATOM	2555	CB	ALA	A	334	3.995	30.695	32.027	1.00	27.72	A
ATOM	2556	C	ALA	A	334	1.904	31.388	30.844	1.00	25.84	A
ATOM	2557	O	ALA	A	334	1.969	31.658	29.648	1.00	25.66	A
ATOM	2558	N	ALA	A	335	0.888	30.722	31.378	1.00	25.82	A
ATOM	2559	CA	ALA	A	335	-0.238	30.251	30.581	1.00	26.78	A
ATOM	2560	CB	ALA	A	335	-1.107	29.328	31.423	1.00	23.73	A
ATOM	2561	C	ALA	A	335	-1.080	31.413	30.033	1.00	28.36	A
ATOM	2562	O	ALA	A	335	-1.434	31.435	28.850	1.00	28.50	A
ATOM	2563	N	LEU	A	336	-1.408	32.370	30.898	1.00	29.22	A
ATOM	2564	CA	LEU	A	336	-2.199	33.526	30.497	1.00	30.03	A
ATOM	2565	CB	LEU	A	336	-2.322	34.514	31.660	1.00	31.29	A
ATOM	2566	CG	LEU	A	336	-3.680	35.202	31.842	1.00	32.99	A
ATOM	2567	CD1	LEU	A	336	-3.610	36.173	33.012	1.00	31.49	A
ATOM	2568	CD2	LEU	A	336	-4.076	35.927	30.572	1.00	32.09	A
ATOM	2569	C	LEU	A	336	-1.484	34.190	29.330	1.00	30.06	A
ATOM	2570	O	LEU	A	336	-2.082	34.491	28.303	1.00	30.60	A
ATOM	2571	N	ARG	A	337	-0.186	34.404	29.498	1.00	30.85	A
ATOM	2572	CA	ARG	A	337	0.629	35.016	28.459	1.00	29.64	A
ATOM	2573	CB	ARG	A	337	2.080	35.111	28.940	1.00	30.15	A
ATOM	2574	CG	ARG	A	337	2.557	36.531	29.191	1.00	32.31	A
ATOM	2575	CD	ARG	A	337	3.139	36.712	30.569	1.00	33.08	A
ATOM	2576	NE	ARG	A	337	4.094	35.655	30.892	1.00	35.57	A
ATOM	2577	CZ	ARG	A	337	4.687	35.512	32.075	1.00	33.36	A
ATOM	2578	NH1	ARG	A	337	4.436	36.366	33.058	1.00	32.55	A
ATOM	2579	NH2	ARG	A	337	5.502	34.492	32.287	1.00	33.57	A
ATOM	2580	C	ARG	A	337	0.538	34.208	27.162	1.00	27.92	A
ATOM	2581	O	ARG	A	337	0.443	34.773	26.078	1.00	28.21	A
ATOM	2582	N	ALA	A	338	0.560	32.884	27.271	1.00	25.86	A
ATOM	2583	CA	ALA	A	338	0.460	32.036	26.086	1.00	24.91	A
ATOM	2584	CB	ALA	A	338	0.642	30.574	26.466	1.00	22.06	A
ATOM	2585	C	ALA	A	338	-0.917	32.254	25.468	1.00	24.29	A
ATOM	2586	O	ALA	A	338	-1.073	32.300	24.253	1.00	23.93	A
ATOM	2587	N	PHE	A	339	-1.915	32.395	26.329	1.00	23.94	A
ATOM	2588	CA	PHE	A	339	-3.279	32.621	25.890	1.00	24.18	A
ATOM	2589	CB	PHE	A	339	-4.204	32.717	27.098	1.00	24.11	A
ATOM	2590	CG	PHE	A	339	-5.574	33.223	26.774	1.00	23.09	A
ATOM	2591	CD1	PHE	A	339	-6.556	32.361	26.315	1.00	25.14	A
ATOM	2592	CD2	PHE	A	339	-5.886	34.569	26.942	1.00	22.68	A
ATOM	2593	CE1	PHE	A	339	-7.841	32.830	26.029	1.00	26.58	A
ATOM	2594	CE2	PHE	A	339	-7.154	35.052	26.660	1.00	23.09	A
ATOM	2595	CZ	PHE	A	339	-8.139	34.184	26.204	1.00	25.56	A
ATOM	2596	C	PHE	A	339	-3.358	33.913	25.093	1.00	24.56	A
ATOM	2597	O	PHE	A	339	-4.047	33.985	24.078	1.00	26.47	A
ATOM	2598	N	THR	A	340	-2.653	34.936	25.558	1.00	22.73	A
ATOM	2599	CA	THR	A	340	-2.670	36.217	24.876	1.00	21.56	A
ATOM	2600	CB	THR	A	340	-2.033	37.301	25.765	1.00	19.09	A
ATOM	2601	OG1	THR	A	340	-2.741	37.351	27.010	1.00	17.99	A
ATOM	2602	CG2	THR	A	340	-2.100	38.672	25.094	1.00	16.16	A
ATOM	2603	C	THR	A	340	-1.971	36.143	23.511	1.00	23.47	A
ATOM	2604	O	THR	A	340	-2.368	36.830	22.557	1.00	22.84	A
ATOM	2605	N	GLU	A	341	-0.943	35.306	23.405	1.00	22.87	A
ATOM	2606	CA	GLU	A	341	-0.257	35.175	22.129	1.00	24.81	A
ATOM	2607	CB	GLU	A	341	1.040	34.375	22.294	1.00	27.24	A
ATOM	2608	CG	GLU	A	341	2.091	35.100	23.131	1.00	28.48	A
ATOM	2609	CD	GLU	A	341	2.337	36.514	22.632	1.00	28.17	A
ATOM	2610	OE1	GLU	A	341	2.772	37.375	23.425	1.00	27.54	A
ATOM	2611	OE2	GLU	A	341	2.092	36.762	21.436	1.00	30.38	A
ATOM	2612	C	GLU	A	341	-1.200	34.485	21.149	1.00	24.82	A
ATOM	2613	O	GLU	A	341	-1.198	34.779	19.957	1.00	23.73	A
ATOM	2614	N	ALA	A	342	-2.012	33.572	21.670	1.00	24.22	A
ATOM	2615	CA	ALA	A	342	-2.974	32.857	20.852	1.00	25.06	A
ATOM	2616	CB	ALA	A	342	-3.697	31.833	21.688	1.00	23.00	A
ATOM	2617	C	ALA	A	342	-3.968	33.875	20.310	1.00	26.97	A
ATOM	2618	O	ALA	A	342	-4.157	33.997	19.095	1.00	29.13	A
ATOM	2619	N	MET	A	343	-4.595	34.610	21.225	1.00	26.49	A
ATOM	2620	CA	MET	A	343	-5.575	35.621	20.862	1.00	25.97	A
ATOM	2621	CB	MET	A	343	-6.060	36.360	22.116	1.00	25.19	A
ATOM	2622	CG	MET	A	343	-6.968	35.539	23.021	1.00	24.33	A

ATOM	2623	SD	MET	A	343	-8.466	34.954	22.185	1.00	24.58	A
ATOM	2624	CE	MET	A	343	-9.663	36.124	22.819	1.00	24.68	A
ATOM	2625	C	MET	A	343	-4.996	36.617	19.863	1.00	26.20	A
ATOM	2626	O	MET	A	343	-5.638	36.966	18.866	1.00	25.82	A
ATOM	2627	N	THR	A	344	-3.776	37.066	20.134	1.00	25.83	A
ATOM	2628	CA	THR	A	344	-3.111	38.022	19.266	1.00	26.11	A
ATOM	2629	CB	THR	A	344	-1.677	38.315	19.759	1.00	26.79	A
ATOM	2630	OG1	THR	A	344	-1.721	38.793	21.111	1.00	28.07	A
ATOM	2631	CG2	THR	A	344	-1.023	39.368	18.886	1.00	24.14	A
ATOM	2632	C	THR	A	344	-3.052	37.479	17.843	1.00	25.79	A
ATOM	2633	O	THR	A	344	-3.367	38.194	16.885	1.00	25.76	A
ATOM	2634	N	ARG	A	345	-2.663	36.212	17.712	1.00	24.25	A
ATOM	2635	CA	ARG	A	345	-2.569	35.578	16.410	1.00	23.48	A
ATOM	2636	CB	ARG	A	345	-1.942	34.195	16.519	1.00	21.97	A
ATOM	2637	CG	ARG	A	345	-0.444	34.205	16.645	1.00	19.73	A
ATOM	2638	CD	ARG	A	345	0.100	32.804	16.501	1.00	21.56	A
ATOM	2639	NE	ARG	A	345	-0.322	31.939	17.596	1.00	22.95	A
ATOM	2640	CZ	ARG	A	345	0.246	31.932	18.796	1.00	25.59	A
ATOM	2641	NH1	ARG	A	345	1.265	32.742	19.060	1.00	29.54	A
ATOM	2642	NH2	ARG	A	345	-0.201	31.121	19.737	1.00	26.25	A
ATOM	2643	C	ARG	A	345	-3.926	35.456	15.743	1.00	25.23	A
ATOM	2644	O	ARG	A	345	-4.030	35.611	14.523	1.00	26.11	A
ATOM	2645	N	TYR	A	346	-4.965	35.164	16.527	1.00	25.19	A
ATOM	2646	CA	TYR	A	346	-6.306	35.051	15.959	1.00	24.35	A
ATOM	2647	CB	TYR	A	346	-7.266	34.351	16.910	1.00	22.98	A
ATOM	2648	CG	TYR	A	346	-6.942	32.909	17.227	1.00	23.34	A
ATOM	2649	CD1	TYR	A	346	-6.201	32.118	16.350	1.00	20.53	A
ATOM	2650	CE1	TYR	A	346	-5.960	30.780	16.629	1.00	21.26	A
ATOM	2651	CD2	TYR	A	346	-7.430	32.320	18.391	1.00	22.54	A
ATOM	2652	CE2	TYR	A	346	-7.196	30.986	18.674	1.00	22.58	A
ATOM	2653	CZ	TYR	A	346	-6.462	30.223	17.791	1.00	22.53	A
ATOM	2654	OH	TYR	A	346	-6.246	28.898	18.081	1.00	23.00	A
ATOM	2655	C	TYR	A	346	-6.865	36.429	15.670	1.00	25.32	A
ATOM	2656	O	TYR	A	346	-8.038	36.557	15.333	1.00	26.47	A
ATOM	2657	N	SER	A	347	-6.028	37.452	15.824	1.00	25.21	A
ATOM	2658	CA	SER	A	347	-6.420	38.834	15.584	1.00	26.88	A
ATOM	2659	CB	SER	A	347	-7.190	38.964	14.278	1.00	25.60	A
ATOM	2660	OG	SER	A	347	-7.603	40.304	14.105	1.00	26.41	A
ATOM	2661	C	SER	A	347	-7.272	39.433	16.689	1.00	29.30	A
ATOM	2662	O	SER	A	347	-8.312	40.041	16.415	1.00	31.99	A
ATOM	2663	N	ALA	A	348	-6.838	39.272	17.933	1.00	29.47	A
ATOM	2664	CA	ALA	A	348	-7.567	39.820	19.075	1.00	28.53	A
ATOM	2665	CB	ALA	A	348	-8.530	38.781	19.624	1.00	28.39	A
ATOM	2666	C	ALA	A	348	-6.549	40.225	20.143	1.00	28.12	A
ATOM	2667	O	ALA	A	348	-6.540	39.695	21.259	1.00	27.58	A
ATOM	2668	N	PRO	A	349	-5.665	41.171	19.803	1.00	27.10	A
ATOM	2669	CD	PRO	A	349	-5.718	42.019	18.599	1.00	24.70	A
ATOM	2670	CA	PRO	A	349	-4.637	41.646	20.735	1.00	27.73	A
ATOM	2671	CB	PRO	A	349	-3.930	42.729	19.930	1.00	26.64	A
ATOM	2672	CG	PRO	A	349	-5.048	43.278	19.060	1.00	25.32	A
ATOM	2673	C	PRO	A	349	-5.243	42.185	22.040	1.00	28.99	A
ATOM	2674	O	PRO	A	349	-6.412	42.566	22.095	1.00	27.16	A
ATOM	2675	N	PRO	A	350	-4.453	42.219	23.111	1.00	30.42	A
ATOM	2676	CD	PRO	A	350	-3.173	41.533	23.343	1.00	30.32	A
ATOM	2677	CA	PRO	A	350	-5.015	42.730	24.360	1.00	32.50	A
ATOM	2678	CB	PRO	A	350	-4.168	42.043	25.420	1.00	31.48	A
ATOM	2679	CG	PRO	A	350	-2.837	41.943	24.755	1.00	29.98	A
ATOM	2680	C	PRO	A	350	-4.940	44.243	24.455	1.00	34.74	A
ATOM	2681	O	PRO	A	350	-4.047	44.864	23.898	1.00	35.41	A
ATOM	2682	N	GLY	A	351	-5.907	44.835	25.137	1.00	37.84	A
ATOM	2683	CA	GLY	A	351	-5.896	46.271	25.321	1.00	40.16	A
ATOM	2684	C	GLY	A	351	-5.131	46.405	26.617	1.00	41.98	A
ATOM	2685	O	GLY	A	351	-3.975	46.824	26.646	1.00	42.38	A
ATOM	2686	N	ASP	A	352	-5.785	46.027	27.703	1.00	43.96	A
ATOM	2687	CA	ASP	A	352	-5.136	46.056	29.000	1.00	47.41	A
ATOM	2688	CB	ASP	A	352	-6.168	46.268	30.121	1.00	50.15	A
ATOM	2689	CG	ASP	A	352	-6.970	47.562	29.952	1.00	53.11	A
ATOM	2690	OD1	ASP	A	352	-6.352	48.640	29.770	1.00	53.90	A
ATOM	2691	OD2	ASP	A	352	-8.221	47.500	30.009	1.00	54.37	A
ATOM	2692	C	ASP	A	352	-4.491	44.681	29.126	1.00	46.38	A
ATOM	2693	O	ASP	A	352	-4.997	43.697	28.586	1.00	49.40	A
ATOM	2694	N	PRO	A	353	-3.354	44.593	29.812	1.00	43.93	A
ATOM	2695	CD	PRO	A	353	-2.523	45.693	30.319	1.00	44.09	A
ATOM	2696	CA	PRO	A	353	-2.686	43.294	29.971	1.00	42.50	A
ATOM	2697	CB	PRO	A	353	-1.344	43.670	30.593	1.00	44.20	A

ATOM	2698	CG	PRO	A	353	-1.149	45.117	30.172	1.00	45.49	A
ATOM	2699	C	PRO	A	353	-3.497	42.378	30.891	1.00	40.31	A
ATOM	2700	O	PRO	A	353	-3.822	42.760	32.015	1.00	41.35	A
ATOM	2701	N	PRO	A	354	-3.836	41.163	30.433	1.00	37.41	A
ATOM	2702	CD	PRO	A	354	-3.603	40.567	29.111	1.00	36.39	A
ATOM	2703	CA	PRO	A	354	-4.612	40.256	31.282	1.00	36.64	A
ATOM	2704	CB	PRO	A	354	-4.954	39.107	30.338	1.00	35.52	A
ATOM	2705	CG	PRO	A	354	-3.821	39.102	29.387	1.00	35.94	A
ATOM	2706	C	PRO	A	354	-3.875	39.788	32.538	1.00	37.75	A
ATOM	2707	O	PRO	A	354	-2.819	39.158	32.457	1.00	37.55	A
ATOM	2708	N	GLN	A	355	-4.447	40.109	33.696	1.00	38.48	A
ATOM	2709	CA	GLN	A	355	-3.879	39.737	34.988	1.00	38.54	A
ATOM	2710	CB	GLN	A	355	-3.930	40.922	35.962	1.00	42.79	A
ATOM	2711	CG	GLN	A	355	-3.012	42.062	35.616	1.00	47.33	A
ATOM	2712	CD	GLN	A	355	-1.621	41.565	35.278	1.00	51.60	A
ATOM	2713	OE1	GLN	A	355	-0.991	40.846	36.071	1.00	52.61	A
ATOM	2714	NE2	GLN	A	355	-1.132	41.937	34.094	1.00	52.33	A
ATOM	2715	C	GLN	A	355	-4.634	38.582	35.623	1.00	37.27	A
ATOM	2716	O	GLN	A	355	-5.860	38.621	35.750	1.00	36.78	A
ATOM	2717	N	PRO	A	356	-3.916	37.533	36.036	1.00	35.58	A
ATOM	2718	CD	PRO	A	356	-2.488	37.230	35.851	1.00	35.11	A
ATOM	2719	CA	PRO	A	356	-4.613	36.409	36.661	1.00	34.53	A
ATOM	2720	CB	PRO	A	356	-3.561	35.307	36.647	1.00	34.73	A
ATOM	2721	CG	PRO	A	356	-2.286	36.058	36.792	1.00	34.39	A
ATOM	2722	C	PRO	A	356	-5.038	36.778	38.078	1.00	34.03	A
ATOM	2723	O	PRO	A	356	-4.215	37.239	38.860	1.00	34.24	A
ATOM	2724	N	GLU	A	357	-6.319	36.590	38.396	1.00	33.41	A
ATOM	2725	CA	GLU	A	357	-6.851	36.886	39.729	1.00	32.49	A
ATOM	2726	CB	GLU	A	357	-8.138	37.715	39.639	1.00	33.58	A
ATOM	2727	CG	GLU	A	357	-7.980	39.128	39.116	1.00	37.17	A
ATOM	2728	CD	GLU	A	357	-6.943	39.925	39.883	1.00	39.90	A
ATOM	2729	OE1	GLU	A	357	-6.942	39.856	41.136	1.00	38.55	A
ATOM	2730	OE2	GLU	A	357	-6.136	40.626	39.224	1.00	40.71	A
ATOM	2731	C	GLU	A	357	-7.151	35.587	40.495	1.00	31.48	A
ATOM	2732	O	GLU	A	357	-7.518	34.563	39.900	1.00	30.65	A
ATOM	2733	N	TYR	A	358	-7.011	35.642	41.816	1.00	29.12	A
ATOM	2734	CA	TYR	A	358	-7.245	34.474	42.654	1.00	27.98	A
ATOM	2735	CB	TYR	A	358	-5.947	34.075	43.355	1.00	23.75	A
ATOM	2736	CG	TYR	A	358	-4.918	33.528	42.399	1.00	21.32	A
ATOM	2737	CD1	TYR	A	358	-5.037	32.239	41.889	1.00	21.85	A
ATOM	2738	CE1	TYR	A	358	-4.118	31.746	40.946	1.00	21.23	A
ATOM	2739	CD2	TYR	A	358	-3.857	34.315	41.952	1.00	19.44	A
ATOM	2740	CE2	TYR	A	358	-2.942	33.836	41.023	1.00	18.55	A
ATOM	2741	CZ	TYR	A	358	-3.081	32.552	40.525	1.00	19.91	A
ATOM	2742	OH	TYR	A	358	-2.192	32.066	39.605	1.00	21.84	A
ATOM	2743	C	TYR	A	358	-8.348	34.714	43.673	1.00	30.32	A
ATOM	2744	O	TYR	A	358	-8.566	33.900	44.578	1.00	29.94	A
ATOM	2745	N	ASP	A	359	-9.038	35.839	43.509	1.00	31.52	A
ATOM	2746	CA	ASP	A	359	-10.147	36.226	44.367	1.00	31.95	A
ATOM	2747	CB	ASP	A	359	-9.703	37.322	45.338	1.00	35.42	A
ATOM	2748	CG	ASP	A	359	-10.874	38.011	46.031	1.00	40.90	A
ATOM	2749	OD1	ASP	A	359	-11.966	37.394	46.145	1.00	42.95	A
ATOM	2750	OD2	ASP	A	359	-10.689	39.175	46.472	1.00	42.31	A
ATOM	2751	C	ASP	A	359	-11.244	36.731	43.440	1.00	32.06	A
ATOM	2752	O	ASP	A	359	-11.083	37.759	42.783	1.00	32.71	A
ATOM	2753	N	LEU	A	360	-12.352	35.996	43.385	1.00	31.21	A
ATOM	2754	CA	LEU	A	360	-13.478	36.333	42.520	1.00	30.24	A
ATOM	2755	CB	LEU	A	360	-14.691	35.464	42.880	1.00	28.23	A
ATOM	2756	CG	LEU	A	360	-15.919	35.609	41.969	1.00	27.56	A
ATOM	2757	CD1	LEU	A	360	-15.528	35.322	40.541	1.00	26.54	A
ATOM	2758	CD2	LEU	A	360	-17.012	34.662	42.394	1.00	28.23	A
ATOM	2759	C	LEU	A	360	-13.884	37.809	42.544	1.00	30.99	A
ATOM	2760	O	LEU	A	360	-14.206	38.399	41.502	1.00	30.91	A
ATOM	2761	N	GLU	A	361	-13.866	38.412	43.727	1.00	30.44	A
ATOM	2762	CA	GLU	A	361	-14.260	39.803	43.837	1.00	30.39	A
ATOM	2763	CB	GLU	A	361	-14.360	40.188	45.310	1.00	32.46	A
ATOM	2764	CG	GLU	A	361	-15.534	39.521	46.005	1.00	35.14	A
ATOM	2765	CD	GLU	A	361	-15.886	40.179	47.326	1.00	38.68	A
ATOM	2766	OE1	GLU	A	361	-15.548	41.374	47.506	1.00	39.18	A
ATOM	2767	OE2	GLU	A	361	-16.516	39.506	48.173	1.00	39.93	A
ATOM	2768	C	GLU	A	361	-13.349	40.762	43.081	1.00	29.48	A
ATOM	2769	O	GLU	A	361	-13.752	41.871	42.740	1.00	28.57	A
ATOM	2770	N	LEU	A	362	-12.127	40.327	42.798	1.00	29.54	A
ATOM	2771	CA	LEU	A	362	-11.174	41.166	42.074	1.00	30.22	A
ATOM	2772	CB	LEU	A	362	-9.746	40.707	42.367	1.00	30.82	A

ATOM	2773	CG	LEU	A	362	-9.368	40.888	43.840	1.00	31.16	A
ATOM	2774	CD1	LEU	A	362	-7.931	40.450	44.072	1.00	28.86	A
ATOM	2775	CD2	LEU	A	362	-9.556	42.346	44.227	1.00	28.81	A
ATOM	2776	C	LEU	A	362	-11.414	41.206	40.564	1.00	29.69	A
ATOM	2777	O	LEU	A	362	-11.205	42.244	39.924	1.00	30.61	A
ATOM	2778	N	ILE	A	363	-11.856	40.088	39.997	1.00	26.81	A
ATOM	2779	CA	ILE	A	363	-12.127	40.040	38.572	1.00	24.91	A
ATOM	2780	CB	ILE	A	363	-12.518	38.623	38.139	1.00	24.18	A
ATOM	2781	CG2	ILE	A	363	-12.868	38.606	36.643	1.00	22.60	A
ATOM	2782	CG1	ILE	A	363	-11.368	37.667	38.465	1.00	23.66	A
ATOM	2783	CD1	ILE	A	363	-11.651	36.219	38.164	1.00	21.04	A
ATOM	2784	C	ILE	A	363	-13.265	41.001	38.214	1.00	25.34	A
ATOM	2785	O	ILE	A	363	-14.219	41.162	38.983	1.00	25.89	A
ATOM	2786	N	THR	A	364	-13.145	41.653	37.060	1.00	23.12	A
ATOM	2787	CA	THR	A	364	-14.170	42.571	36.598	1.00	21.50	A
ATOM	2788	CB	THR	A	364	-13.683	44.021	36.572	1.00	20.84	A
ATOM	2789	OG1	THR	A	364	-13.279	44.410	37.890	1.00	22.82	A
ATOM	2790	CG2	THR	A	364	-14.802	44.951	36.070	1.00	15.73	A
ATOM	2791	C	THR	A	364	-14.551	42.194	35.184	1.00	23.32	A
ATOM	2792	O	THR	A	364	-13.757	42.370	34.251	1.00	24.92	A
ATOM	2793	N	SER	A	365	-15.760	41.668	35.028	1.00	22.68	A
ATOM	2794	CA	SER	A	365	-16.265	41.270	33.727	1.00	23.24	A
ATOM	2795	CB	SER	A	365	-16.539	39.772	33.696	1.00	26.14	A
ATOM	2796	OG	SER	A	365	-17.662	39.459	34.507	1.00	32.49	A
ATOM	2797	C	SER	A	365	-17.556	42.028	33.510	1.00	23.11	A
ATOM	2798	O	SER	A	365	-18.371	42.151	34.434	1.00	21.66	A
ATOM	2799	N	CYS	A	366	-17.740	42.524	32.288	1.00	23.26	A
ATOM	2800	CA	CYS	A	366	-18.917	43.306	31.933	1.00	23.97	A
ATOM	2801	CB	CYS	A	366	-20.187	42.459	32.006	1.00	25.04	A
ATOM	2802	SG	CYS	A	366	-20.486	41.394	30.584	1.00	30.76	A
ATOM	2803	C	CYS	A	366	-19.063	44.507	32.856	1.00	23.47	A
ATOM	2804	O	CYS	A	366	-20.171	44.892	33.207	1.00	23.42	A
ATOM	2805	N	SER	A	367	-17.940	45.092	33.252	1.00	24.09	A
ATOM	2806	CA	SER	A	367	-17.954	46.256	34.135	1.00	26.82	A
ATOM	2807	CB	SER	A	367	-18.792	47.370	33.501	1.00	25.71	A
ATOM	2808	OG	SER	A	367	-18.337	47.657	32.195	1.00	26.94	A
ATOM	2809	C	SER	A	367	-18.480	45.983	35.556	1.00	27.65	A
ATOM	2810	O	SER	A	367	-18.720	46.924	36.320	1.00	27.50	A
ATOM	2811	N	SER	A	368	-18.657	44.710	35.906	1.00	26.75	A
ATOM	2812	CA	SER	A	368	-19.165	44.353	37.222	1.00	27.75	A
ATOM	2813	CB	SER	A	368	-20.552	43.722	37.100	1.00	27.33	A
ATOM	2814	OG	SER	A	368	-21.375	44.470	36.234	1.00	27.55	A
ATOM	2815	C	SER	A	368	-18.247	43.370	37.917	1.00	28.82	A
ATOM	2816	O	SER	A	368	-17.398	42.753	37.286	1.00	31.17	A
ATOM	2817	N	ASN	A	369	-18.423	43.232	39.225	1.00	29.56	A
ATOM	2818	CA	ASN	A	369	-17.639	42.291	40.017	1.00	30.60	A
ATOM	2819	CB	ASN	A	369	-16.472	42.977	40.712	1.00	30.95	A
ATOM	2820	CG	ASN	A	369	-16.934	43.967	41.762	1.00	32.53	A
ATOM	2821	OD1	ASN	A	369	-17.534	44.989	41.439	1.00	36.97	A
ATOM	2822	ND2	ASN	A	369	-16.674	43.661	43.025	1.00	32.37	A
ATOM	2823	C	ASN	A	369	-18.571	41.769	41.088	1.00	31.71	A
ATOM	2824	O	ASN	A	369	-19.634	42.343	41.346	1.00	31.37	A
ATOM	2825	N	VAL	A	370	-18.168	40.682	41.721	1.00	31.53	A
ATOM	2826	CA	VAL	A	370	-18.962	40.117	42.785	1.00	32.05	A
ATOM	2827	CB	VAL	A	370	-18.695	38.622	42.902	1.00	32.58	A
ATOM	2828	CG1	VAL	A	370	-19.427	38.054	44.115	1.00	33.21	A
ATOM	2829	CG2	VAL	A	370	-19.135	37.933	41.617	1.00	31.74	A
ATOM	2830	C	VAL	A	370	-18.633	40.802	44.116	1.00	32.54	A
ATOM	2831	O	VAL	A	370	-17.550	41.348	44.304	1.00	33.90	A
ATOM	2832	N	SER	A	371	-19.593	40.797	45.025	1.00	32.29	A
ATOM	2833	CA	SER	A	371	-19.405	41.382	46.337	1.00	32.63	A
ATOM	2834	CB	SER	A	371	-19.667	42.885	46.304	1.00	33.56	A
ATOM	2835	OG	SER	A	371	-19.470	43.456	47.585	1.00	31.66	A
ATOM	2836	C	SER	A	371	-20.406	40.676	47.234	1.00	33.12	A
ATOM	2837	O	SER	A	371	-21.352	40.062	46.746	1.00	32.23	A
ATOM	2838	N	VAL	A	372	-20.212	40.760	48.540	1.00	34.19	A
ATOM	2839	CA	VAL	A	372	-21.113	40.068	49.442	1.00	36.74	A
ATOM	2840	CB	VAL	A	372	-20.333	39.022	50.265	1.00	36.65	A
ATOM	2841	CG1	VAL	A	372	-21.297	38.117	51.005	1.00	39.06	A
ATOM	2842	CG2	VAL	A	372	-19.441	38.199	49.342	1.00	38.61	A
ATOM	2843	C	VAL	A	372	-21.883	40.970	50.395	1.00	37.69	A
ATOM	2844	O	VAL	A	372	-21.452	42.077	50.718	1.00	39.85	A
ATOM	2845	N	ALA	A	373	-23.037	40.484	50.835	1.00	37.32	A
ATOM	2846	CA	ALA	A	373	-23.877	41.206	51.786	1.00	37.32	A
ATOM	2847	CB	ALA	A	373	-24.774	42.201	51.060	1.00	36.64	A

ATOM	2848	C	ALA	A	373	-24.712	40.171	52.542	1.00	36.47	A
ATOM	2849	O	ALA	A	373	-24.556	38.972	52.333	1.00	36.35	A
ATOM	2850	N	HIS	A	374	-25.595	40.625	53.419	1.00	36.14	A
ATOM	2851	CA	HIS	A	374	-26.417	39.702	54.184	1.00	37.25	A
ATOM	2852	CB	HIS	A	374	-25.929	39.667	55.625	1.00	37.75	A
ATOM	2853	CG	HIS	A	374	-24.472	39.354	55.756	1.00	39.65	A
ATOM	2854	CD2	HIS	A	374	-23.377	40.144	55.646	1.00	40.30	A
ATOM	2855	ND1	HIS	A	374	-24.001	38.078	55.984	1.00	40.07	A
ATOM	2856	CE1	HIS	A	374	-22.679	38.096	56.008	1.00	40.00	A
ATOM	2857	NE2	HIS	A	374	-22.275	39.337	55.805	1.00	40.87	A
ATOM	2858	C	HIS	A	374	-27.864	40.144	54.130	1.00	38.05	A
ATOM	2859	O	HIS	A	374	-28.141	41.331	54.022	1.00	38.56	A
ATOM	2860	N	ASP	A	375	-28.789	39.191	54.176	1.00	40.53	A
ATOM	2861	CA	ASP	A	375	-30.207	39.531	54.143	1.00	43.39	A
ATOM	2862	CB	ASP	A	375	-31.028	38.440	53.442	1.00	45.95	A
ATOM	2863	CG	ASP	A	375	-30.845	37.072	54.073	1.00	49.22	A
ATOM	2864	OD1	ASP	A	375	-30.872	36.982	55.321	1.00	50.68	A
ATOM	2865	OD2	ASP	A	375	-30.685	36.084	53.317	1.00	50.85	A
ATOM	2866	C	ASP	A	375	-30.707	39.709	55.567	1.00	43.26	A
ATOM	2867	O	ASP	A	375	-29.914	39.842	56.503	1.00	42.14	A
ATOM	2868	N	ALA	A	376	-32.025	39.710	55.724	1.00	43.54	A
ATOM	2869	CA	ALA	A	376	-32.625	39.878	57.035	1.00	43.50	A
ATOM	2870	CB	ALA	A	376	-34.130	39.763	56.920	1.00	44.47	A
ATOM	2871	C	ALA	A	376	-32.090	38.842	58.022	1.00	43.41	A
ATOM	2872	O	ALA	A	376	-31.800	39.161	59.173	1.00	43.52	A
ATOM	2873	N	SER	A	377	-31.938	37.608	57.555	1.00	42.65	A
ATOM	2874	CA	SER	A	377	-31.463	36.508	58.390	1.00	42.44	A
ATOM	2875	CB	SER	A	377	-31.985	35.195	57.827	1.00	43.07	A
ATOM	2876	OG	SER	A	377	-33.398	35.225	57.789	1.00	46.85	A
ATOM	2877	C	SER	A	377	-29.955	36.399	58.596	1.00	41.90	A
ATOM	2878	O	SER	A	377	-29.486	35.511	59.310	1.00	42.31	A
ATOM	2879	N	GLY	A	378	-29.193	37.293	57.979	1.00	41.57	A
ATOM	2880	CA	GLY	A	378	-27.749	37.250	58.143	1.00	38.60	A
ATOM	2881	C	GLY	A	378	-27.088	36.325	57.148	1.00	36.67	A
ATOM	2882	O	GLY	A	378	-25.864	36.240	57.084	1.00	35.09	A
ATOM	2883	N	LYS	A	379	-27.910	35.624	56.375	1.00	36.96	A
ATOM	2884	CA	LYS	A	379	-27.423	34.698	55.361	1.00	37.25	A
ATOM	2885	CB	LYS	A	379	-28.615	33.994	54.689	1.00	39.35	A
ATOM	2886	CG	LYS	A	379	-28.231	32.894	53.703	1.00	44.82	A
ATOM	2887	CD	LYS	A	379	-29.439	32.340	52.927	1.00	48.48	A
ATOM	2888	CE	LYS	A	379	-30.067	33.396	51.995	1.00	51.49	A
ATOM	2889	NZ	LYS	A	379	-31.182	32.849	51.142	1.00	51.53	A
ATOM	2890	C	LYS	A	379	-26.634	35.514	54.335	1.00	35.43	A
ATOM	2891	O	LYS	A	379	-27.008	36.637	54.008	1.00	33.92	A
ATOM	2892	N	ARG	A	380	-25.537	34.956	53.839	1.00	33.98	A
ATOM	2893	CA	ARG	A	380	-24.723	35.656	52.857	1.00	33.99	A
ATOM	2894	CB	ARG	A	380	-23.335	35.040	52.772	1.00	35.01	A
ATOM	2895	CG	ARG	A	380	-22.622	35.021	54.087	1.00	39.62	A
ATOM	2896	CD	ARG	A	380	-21.289	34.350	53.948	1.00	43.47	A
ATOM	2897	NE	ARG	A	380	-20.481	35.019	52.941	1.00	47.85	A
ATOM	2898	CZ	ARG	A	380	-19.243	34.662	52.629	1.00	49.71	A
ATOM	2899	NH1	ARG	A	380	-18.674	33.637	53.259	1.00	50.68	A
ATOM	2900	NH2	ARG	A	380	-18.579	35.325	51.685	1.00	49.84	A
ATOM	2901	C	ARG	A	380	-25.362	35.622	51.482	1.00	32.87	A
ATOM	2902	O	ARG	A	380	-25.869	34.589	51.036	1.00	33.47	A
ATOM	2903	N	VAL	A	381	-25.340	36.766	50.816	1.00	30.56	A
ATOM	2904	CA	VAL	A	381	-25.903	36.878	49.491	1.00	28.55	A
ATOM	2905	CB	VAL	A	381	-27.211	37.675	49.504	1.00	28.03	A
ATOM	2906	CG1	VAL	A	381	-27.720	37.849	48.090	1.00	25.98	A
ATOM	2907	CG2	VAL	A	381	-28.241	36.957	50.350	1.00	27.99	A
ATOM	2908	C	VAL	A	381	-24.918	37.566	48.563	1.00	28.60	A
ATOM	2909	O	VAL	A	381	-24.550	38.727	48.771	1.00	29.55	A
ATOM	2910	N	TYR	A	382	-24.483	36.825	47.549	1.00	26.74	A
ATOM	2911	CA	TYR	A	382	-23.564	37.334	46.554	1.00	23.18	A
ATOM	2912	CB	TYR	A	382	-22.917	36.168	45.809	1.00	21.49	A
ATOM	2913	CG	TYR	A	382	-22.039	35.291	46.667	1.00	22.21	A
ATOM	2914	CD1	TYR	A	382	-20.742	35.679	47.014	1.00	23.03	A
ATOM	2915	CE1	TYR	A	382	-19.944	34.872	47.826	1.00	23.10	A
ATOM	2916	CD2	TYR	A	382	-22.511	34.080	47.153	1.00	22.29	A
ATOM	2917	CE2	TYR	A	382	-21.727	33.267	47.963	1.00	23.41	A
ATOM	2918	CZ	TYR	A	382	-20.450	33.663	48.299	1.00	25.73	A
ATOM	2919	OH	TYR	A	382	-19.696	32.844	49.116	1.00	29.51	A
ATOM	2920	C	TYR	A	382	-24.385	38.181	45.586	1.00	22.05	A
ATOM	2921	O	TYR	A	382	-25.452	37.766	45.155	1.00	22.11	A
ATOM	2922	N	TYR	A	383	-23.906	39.377	45.270	1.00	22.16	A

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ATOM   2923  CA  TYR A 383     -24.609  40.239  44.333  1.00 22.45      A
ATOM   2924  CB  TYR A 383     -25.422  41.301  45.070  1.00 22.41      A
ATOM   2925  CG  TYR A 383     -24.613  42.416  45.697  1.00 23.29      A
ATOM   2926  CD1 TYR A 383     -23.829  42.193  46.831  1.00 22.68      A
ATOM   2927  CE1 TYR A 383     -23.113  43.233  47.430  1.00 22.03      A
ATOM   2928  CD2 TYR A 383     -24.661  43.705  45.171  1.00 23.84      A
ATOM   2929  CE2 TYR A 383     -23.954  44.748  45.759  1.00 25.95      A
ATOM   2930  CZ  TYR A 383     -23.179  44.507  46.888  1.00 24.78      A
ATOM   2931  OH  TYR A 383     -22.466  45.548  47.455  1.00 26.56      A
ATOM   2932  C   TYR A 383     -23.611  40.905  43.403  1.00 22.28      A
ATOM   2933  O   TYR A 383     -22.417  40.947  43.689  1.00 22.89      A
ATOM   2934  N   LEU A 384     -24.106  41.434  42.293  1.00 22.37      A
ATOM   2935  CA  LEU A 384     -23.247  42.071  41.305  1.00 21.39      A
ATOM   2936  CB  LEU A 384     -23.722  41.668  39.921  1.00 21.91      A
ATOM   2937  CG  LEU A 384     -22.657  41.599  38.836  1.00 25.65      A
ATOM   2938  CD1 LEU A 384     -21.605  40.576  39.218  1.00 25.43      A
ATOM   2939  CD2 LEU A 384     -23.320  41.220  37.516  1.00 27.34      A
ATOM   2940  C   LEU A 384     -23.217  43.598  41.441  1.00 21.43      A
ATOM   2941  O   LEU A 384     -24.263  44.246  41.506  1.00 21.41      A
ATOM   2942  N   THR A 385     -22.012  44.163  41.484  1.00 21.04      A
ATOM   2943  CA  THR A 385     -21.841  45.603  41.631  1.00 21.29      A
ATOM   2944  CB  THR A 385     -21.572  45.987  43.119  1.00 20.50      A
ATOM   2945  OG1 THR A 385     -21.681  47.410  43.270  1.00 23.52      A
ATOM   2946  CG2 THR A 385     -20.180  45.553  43.561  1.00 18.25      A
ATOM   2947  C   THR A 385     -20.711  46.169  40.756  1.00 23.29      A
ATOM   2948  O   THR A 385     -20.133  45.464  39.926  1.00 23.77      A
ATOM   2949  N   ARG A 386     -20.390  47.445  40.961  1.00 24.11      A
ATOM   2950  CA  ARG A 386     -19.349  48.104  40.180  1.00 24.18      A
ATOM   2951  CB  ARG A 386     -19.805  48.258  38.739  1.00 23.31      A
ATOM   2952  CG  ARG A 386     -21.044  49.140  38.633  1.00 21.66      A
ATOM   2953  CD  ARG A 386     -21.355  49.510  37.212  1.00 19.80      A
ATOM   2954  NE  ARG A 386     -20.496  50.582  36.726  1.00 20.09      A
ATOM   2955  CZ  ARG A 386     -20.304  50.839  35.438  1.00 19.52      A
ATOM   2956  NH1 ARG A 386     -20.908  50.089  34.534  1.00 20.59      A
ATOM   2957  NH2 ARG A 386     -19.529  51.842  35.055  1.00 17.57      A
ATOM   2958  C   ARG A 386     -19.074  49.502  40.704  1.00 24.63      A
ATOM   2959  O   ARG A 386     -19.828  50.037  41.509  1.00 26.14      A
ATOM   2960  N   ASP A 387     -17.991  50.097  40.231  1.00 23.93      A
ATOM   2961  CA  ASP A 387     -17.685  51.450  40.624  1.00 23.93      A
ATOM   2962  CB  ASP A 387     -16.387  51.884  39.973  1.00 24.04      A
ATOM   2963  CG  ASP A 387     -16.037  53.294  40.296  1.00 25.92      A
ATOM   2964  OD1 ASP A 387     -16.805  54.190  39.882  1.00 26.71      A
ATOM   2965  OD2 ASP A 387     -15.003  53.506  40.972  1.00 28.07      A
ATOM   2966  C   ASP A 387     -18.870  52.253  40.072  1.00 24.51      A
ATOM   2967  O   ASP A 387     -19.215  52.132  38.893  1.00 23.90      A
ATOM   2968  N   PRO A 388     -19.518  53.071  40.919  1.00 24.67      A
ATOM   2969  CD  PRO A 388     -19.362  53.125  42.384  1.00 25.49      A
ATOM   2970  CA  PRO A 388     -20.671  53.872  40.494  1.00 24.11      A
ATOM   2971  CB  PRO A 388     -21.452  54.040  41.791  1.00 24.85      A
ATOM   2972  CG  PRO A 388     -20.365  54.189  42.790  1.00 25.52      A
ATOM   2973  C   PRO A 388     -20.429  55.208  39.796  1.00 23.38      A
ATOM   2974  O   PRO A 388     -21.390  55.894  39.456  1.00 22.52      A
ATOM   2975  N   THR A 389     -19.170  55.576  39.572  1.00 23.52      A
ATOM   2976  CA  THR A 389     -18.859  56.850  38.915  1.00 23.09      A
ATOM   2977  CB  THR A 389     -17.391  56.951  38.529  1.00 22.16      A
ATOM   2978  OG1 THR A 389     -16.578  56.843  39.701  1.00 25.32      A
ATOM   2979  CG2 THR A 389     -17.131  58.282  37.879  1.00 21.11      A
ATOM   2980  C   THR A 389     -19.659  57.141  37.650  1.00 23.10      A
ATOM   2981  O   THR A 389     -20.424  58.112  37.602  1.00 23.05      A
ATOM   2982  N   THR A 390     -19.470  56.320  36.620  1.00 22.06      A
ATOM   2983  CA  THR A 390     -20.192  56.539  35.376  1.00 21.43      A
ATOM   2984  CB  THR A 390     -19.862  55.462  34.304  1.00 21.90      A
ATOM   2985  OG1 THR A 390     -18.452  55.439  34.051  1.00 18.82      A
ATOM   2986  CG2 THR A 390     -20.569  55.782  33.007  1.00 20.15      A
ATOM   2987  C   THR A 390     -21.694  56.539  35.645  1.00 21.12      A
ATOM   2988  O   THR A 390     -22.392  57.483  35.279  1.00 22.27      A
ATOM   2989  N   PRO A 391     -22.214  55.489  36.301  1.00 20.03      A
ATOM   2990  CD  PRO A 391     -21.607  54.233  36.774  1.00 20.43      A
ATOM   2991  CA  PRO A 391     -23.653  55.493  36.558  1.00 20.89      A
ATOM   2992  CB  PRO A 391     -23.839  54.285  37.474  1.00 20.24      A
ATOM   2993  CG  PRO A 391     -22.817  53.338  36.971  1.00 19.95      A
ATOM   2994  C   PRO A 391     -24.143  56.798  37.190  1.00 21.76      A
ATOM   2995  O   PRO A 391     -25.168  57.352  36.781  1.00 23.84      A
ATOM   2996  N   LEU A 392     -23.413  57.295  38.183  1.00 20.93      A
ATOM   2997  CA  LEU A 392     -23.807  58.530  38.843  1.00 19.96      A
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ATOM	2998	CB	LEU	A	392	-22.935	58.774	40.075	1.00	18.31	A
ATOM	2999	CG	LEU	A	392	-23.264	57.827	41.227	1.00	17.06	A
ATOM	3000	CD1	LEU	A	392	-22.262	57.977	42.340	1.00	15.21	A
ATOM	3001	CD2	LEU	A	392	-24.656	58.117	41.714	1.00	16.54	A
ATOM	3002	C	LEU	A	392	-23.706	59.705	37.878	1.00	20.57	A
ATOM	3003	O	LEU	A	392	-24.653	60.497	37.760	1.00	18.66	A
ATOM	3004	N	ALA	A	393	-22.569	59.811	37.187	1.00	20.35	A
ATOM	3005	CA	ALA	A	393	-22.359	60.893	36.227	1.00	20.75	A
ATOM	3006	CB	ALA	A	393	-21.076	60.663	35.460	1.00	18.34	A
ATOM	3007	C	ALA	A	393	-23.538	60.983	35.254	1.00	22.32	A
ATOM	3008	O	ALA	A	393	-24.039	62.073	34.960	1.00	21.74	A
ATOM	3009	N	ARG	A	394	-23.990	59.830	34.770	1.00	22.72	A
ATOM	3010	CA	ARG	A	394	-25.092	59.788	33.827	1.00	23.50	A
ATOM	3011	CB	ARG	A	394	-25.126	58.427	33.144	1.00	23.60	A
ATOM	3012	CG	ARG	A	394	-23.856	58.170	32.368	1.00	21.77	A
ATOM	3013	CD	ARG	A	394	-23.839	56.839	31.662	1.00	21.51	A
ATOM	3014	NE	ARG	A	394	-22.603	56.738	30.894	1.00	23.32	A
ATOM	3015	CZ	ARG	A	394	-22.264	55.705	30.133	1.00	21.65	A
ATOM	3016	NH1	ARG	A	394	-23.075	54.660	30.028	1.00	22.52	A
ATOM	3017	NH2	ARG	A	394	-21.110	55.725	29.480	1.00	19.08	A
ATOM	3018	C	ARG	A	394	-26.433	60.106	34.463	1.00	24.73	A
ATOM	3019	O	ARG	A	394	-27.319	60.637	33.803	1.00	26.77	A
ATOM	3020	N	ALA	A	395	-26.602	59.782	35.738	1.00	24.44	A
ATOM	3021	CA	ALA	A	395	-27.858	60.101	36.398	1.00	24.09	A
ATOM	3022	CB	ALA	A	395	-27.867	59.545	37.819	1.00	24.33	A
ATOM	3023	C	ALA	A	395	-27.958	61.626	36.421	1.00	24.22	A
ATOM	3024	O	ALA	A	395	-28.986	62.201	36.065	1.00	23.49	A
ATOM	3025	N	ALA	A	396	-26.869	62.273	36.825	1.00	23.82	A
ATOM	3026	CA	ALA	A	396	-26.822	63.726	36.898	1.00	24.85	A
ATOM	3027	CB	ALA	A	396	-25.449	64.186	37.331	1.00	24.88	A
ATOM	3028	C	ALA	A	396	-27.161	64.333	35.561	1.00	25.09	A
ATOM	3029	O	ALA	A	396	-28.031	65.191	35.466	1.00	26.98	A
ATOM	3030	N	TRP	A	397	-26.462	63.896	34.526	1.00	25.51	A
ATOM	3031	CA	TRP	A	397	-26.712	64.400	33.188	1.00	26.31	A
ATOM	3032	CB	TRP	A	397	-25.862	63.628	32.191	1.00	27.97	A
ATOM	3033	CG	TRP	A	397	-25.995	64.125	30.815	1.00	30.33	A
ATOM	3034	CD2	TRP	A	397	-25.144	65.072	30.179	1.00	32.02	A
ATOM	3035	CE2	TRP	A	397	-25.678	65.320	28.895	1.00	32.19	A
ATOM	3036	CE3	TRP	A	397	-23.980	65.741	30.571	1.00	32.45	A
ATOM	3037	CD1	TRP	A	397	-26.986	63.833	29.920	1.00	31.18	A
ATOM	3038	NE1	TRP	A	397	-26.802	64.549	28.761	1.00	32.33	A
ATOM	3039	CZ2	TRP	A	397	-25.089	66.207	28.004	1.00	32.81	A
ATOM	3040	CZ3	TRP	A	397	-23.394	66.621	29.689	1.00	33.97	A
ATOM	3041	CH2	TRP	A	397	-23.950	66.848	28.416	1.00	35.37	A
ATOM	3042	C	TRP	A	397	-28.194	64.234	32.852	1.00	26.14	A
ATOM	3043	O	TRP	A	397	-28.897	65.201	32.555	1.00	24.99	A
ATOM	3044	N	GLU	A	398	-28.659	62.991	32.919	1.00	26.38	A
ATOM	3045	CA	GLU	A	398	-30.045	62.649	32.633	1.00	26.82	A
ATOM	3046	CB	GLU	A	398	-30.218	61.141	32.785	1.00	26.07	A
ATOM	3047	CG	GLU	A	398	-29.758	60.380	31.543	1.00	28.56	A
ATOM	3048	CD	GLU	A	398	-29.295	58.953	31.816	1.00	29.70	A
ATOM	3049	OE1	GLU	A	398	-29.946	58.236	32.609	1.00	30.20	A
ATOM	3050	OE2	GLU	A	398	-28.274	58.549	31.214	1.00	30.71	A
ATOM	3051	C	GLU	A	398	-31.043	63.407	33.509	1.00	28.02	A
ATOM	3052	O	GLU	A	398	-32.246	63.403	33.253	1.00	29.25	A
ATOM	3053	N	THR	A	399	-30.538	64.070	34.538	1.00	28.57	A
ATOM	3054	CA	THR	A	399	-31.388	64.828	35.431	1.00	29.11	A
ATOM	3055	CB	THR	A	399	-30.785	64.879	36.848	1.00	28.48	A
ATOM	3056	OG1	THR	A	399	-30.671	63.554	37.371	1.00	25.35	A
ATOM	3057	CG2	THR	A	399	-31.665	65.710	37.775	1.00	29.58	A
ATOM	3058	C	THR	A	399	-31.500	66.247	34.892	1.00	31.87	A
ATOM	3059	O	THR	A	399	-32.551	66.883	34.976	1.00	32.22	A
ATOM	3060	N	ALA	A	400	-30.406	66.739	34.329	1.00	34.49	A
ATOM	3061	CA	ALA	A	400	-30.363	68.092	33.799	1.00	38.42	A
ATOM	3062	CB	ALA	A	400	-28.923	68.595	33.819	1.00	37.78	A
ATOM	3063	C	ALA	A	400	-30.941	68.206	32.389	1.00	41.83	A
ATOM	3064	O	ALA	A	400	-31.420	69.268	31.989	1.00	42.82	A
ATOM	3065	N	ARG	A	401	-30.890	67.108	31.641	1.00	45.26	A
ATOM	3066	CA	ARG	A	401	-31.389	67.075	30.273	1.00	48.19	A
ATOM	3067	CB	ARG	A	401	-30.221	67.037	29.294	1.00	47.49	A
ATOM	3068	CG	ARG	A	401	-29.304	68.227	29.329	1.00	48.07	A
ATOM	3069	CD	ARG	A	401	-28.091	67.929	28.459	1.00	51.49	A
ATOM	3070	NE	ARG	A	401	-27.179	69.065	28.327	1.00	53.08	A
ATOM	3071	CZ	ARG	A	401	-27.436	70.156	27.612	1.00	51.88	A
ATOM	3072	NH1	ARG	A	401	-28.585	70.263	26.955	1.00	50.34	A

ATOM	3073	NH2	ARG	A	401	-26.544	71.139	27.562	1.00	50.04	A
ATOM	3074	C	ARG	A	401	-32.264	65.851	30.015	1.00	51.19	A
ATOM	3075	O	ARG	A	401	-31.987	64.752	30.510	1.00	51.77	A
ATOM	3076	N	HIS	A	402	-33.324	66.040	29.236	1.00	54.37	A
ATOM	3077	CA	HIS	A	402	-34.193	64.921	28.902	1.00	56.24	A
ATOM	3078	CB	HIS	A	402	-35.563	65.409	28.421	1.00	60.35	A
ATOM	3079	CG	HIS	A	402	-36.674	65.115	29.383	1.00	66.44	A
ATOM	3080	CD2	HIS	A	402	-36.773	64.199	30.379	1.00	68.10	A
ATOM	3081	ND1	HIS	A	402	-37.868	65.809	29.382	1.00	69.51	A
ATOM	3082	CE1	HIS	A	402	-38.653	65.335	30.336	1.00	70.37	A
ATOM	3083	NE2	HIS	A	402	-38.012	64.358	30.955	1.00	70.19	A
ATOM	3084	C	HIS	A	402	-33.485	64.148	27.807	1.00	54.16	A
ATOM	3085	O	HIS	A	402	-33.205	64.672	26.735	1.00	53.95	A
ATOM	3086	N	THR	A	403	-33.163	62.902	28.098	1.00	52.30	A
ATOM	3087	CA	THR	A	403	-32.479	62.073	27.132	1.00	51.52	A
ATOM	3088	CB	THR	A	403	-31.193	61.491	27.746	1.00	51.83	A
ATOM	3089	OG1	THR	A	403	-31.428	61.168	29.124	1.00	52.11	A
ATOM	3090	CG2	THR	A	403	-30.059	62.502	27.648	1.00	50.02	A
ATOM	3091	C	THR	A	403	-33.399	60.958	26.649	1.00	50.20	A
ATOM	3092	O	THR	A	403	-34.360	60.594	27.333	1.00	49.57	A
ATOM	3093	N	PRO	A	404	-33.122	60.412	25.453	1.00	48.95	A
ATOM	3094	CD	PRO	A	404	-31.947	60.743	24.631	1.00	48.61	A
ATOM	3095	CA	PRO	A	404	-33.904	59.331	24.833	1.00	47.91	A
ATOM	3096	CB	PRO	A	404	-33.139	59.037	23.539	1.00	48.97	A
ATOM	3097	CG	PRO	A	404	-32.407	60.329	23.259	1.00	50.28	A
ATOM	3098	C	PRO	A	404	-33.948	58.108	25.744	1.00	45.19	A
ATOM	3099	O	PRO	A	404	-34.984	57.464	25.904	1.00	44.71	A
ATOM	3100	N	ILE	A	405	-32.797	57.795	26.327	1.00	43.06	A
ATOM	3101	CA	ILE	A	405	-32.668	56.664	27.229	1.00	41.96	A
ATOM	3102	CB	ILE	A	405	-31.566	55.691	26.774	1.00	40.55	A
ATOM	3103	CG2	ILE	A	405	-31.447	54.547	27.781	1.00	39.14	A
ATOM	3104	CG1	ILE	A	405	-31.892	55.132	25.392	1.00	40.07	A
ATOM	3105	CD1	ILE	A	405	-33.066	54.175	25.385	1.00	41.75	A
ATOM	3106	C	ILE	A	405	-32.322	57.121	28.642	1.00	41.93	A
ATOM	3107	O	ILE	A	405	-31.637	58.132	28.846	1.00	42.71	A
ATOM	3108	N	ASN	A	406	-32.801	56.362	29.617	1.00	40.32	A
ATOM	3109	CA	ASN	A	406	-32.541	56.673	31.003	1.00	38.55	A
ATOM	3110	CB	ASN	A	406	-33.856	56.763	31.769	1.00	39.95	A
ATOM	3111	CG	ASN	A	406	-34.722	57.909	31.285	1.00	42.02	A
ATOM	3112	OD1	ASN	A	406	-34.372	59.083	31.455	1.00	42.94	A
ATOM	3113	ND2	ASN	A	406	-35.853	57.578	30.664	1.00	41.88	A
ATOM	3114	C	ASN	A	406	-31.657	55.585	31.563	1.00	37.09	A
ATOM	3115	O	ASN	A	406	-32.137	54.570	32.076	1.00	36.15	A
ATOM	3116	N	SER	A	407	-30.352	55.791	31.433	1.00	34.44	A
ATOM	3117	CA	SER	A	407	-29.398	54.831	31.937	1.00	33.47	A
ATOM	3118	CB	SER	A	407	-27.985	55.362	31.763	1.00	33.38	A
ATOM	3119	OG	SER	A	407	-27.821	56.553	32.509	1.00	36.11	A
ATOM	3120	C	SER	A	407	-29.656	54.573	33.418	1.00	33.87	A
ATOM	3121	O	SER	A	407	-29.347	53.500	33.931	1.00	35.54	A
ATOM	3122	N	TRP	A	408	-30.232	55.551	34.108	1.00	32.77	A
ATOM	3123	CA	TRP	A	408	-30.479	55.387	35.530	1.00	30.87	A
ATOM	3124	CB	TRP	A	408	-30.820	56.727	36.171	1.00	29.78	A
ATOM	3125	CG	TRP	A	408	-32.108	57.291	35.732	1.00	29.76	A
ATOM	3126	CD2	TRP	A	408	-33.394	57.008	36.291	1.00	29.17	A
ATOM	3127	CE2	TRP	A	408	-34.334	57.790	35.591	1.00	29.46	A
ATOM	3128	CE3	TRP	A	408	-33.844	56.167	37.320	1.00	29.31	A
ATOM	3129	CD1	TRP	A	408	-32.311	58.203	34.737	1.00	29.57	A
ATOM	3130	NE1	TRP	A	408	-33.648	58.511	34.648	1.00	29.84	A
ATOM	3131	CZ2	TRP	A	408	-35.701	57.756	35.889	1.00	28.60	A
ATOM	3132	CZ3	TRP	A	408	-35.203	56.132	37.616	1.00	25.23	A
ATOM	3133	CH2	TRP	A	408	-36.111	56.921	36.904	1.00	27.68	A
ATOM	3134	C	TRP	A	408	-31.566	54.372	35.842	1.00	29.99	A
ATOM	3135	O	TRP	A	408	-31.496	53.675	36.858	1.00	30.65	A
ATOM	3136	N	LEU	A	409	-32.571	54.277	34.979	1.00	28.86	A
ATOM	3137	CA	LEU	A	409	-33.644	53.316	35.210	1.00	27.93	A
ATOM	3138	CB	LEU	A	409	-34.821	53.586	34.268	1.00	26.52	A
ATOM	3139	CG	LEU	A	409	-36.109	52.783	34.494	1.00	27.09	A
ATOM	3140	CD1	LEU	A	409	-36.677	53.073	35.879	1.00	26.69	A
ATOM	3141	CD2	LEU	A	409	-37.128	53.142	33.425	1.00	25.51	A
ATOM	3142	C	LEU	A	409	-33.086	51.912	34.981	1.00	27.81	A
ATOM	3143	O	LEU	A	409	-33.470	50.958	35.656	1.00	27.89	A
ATOM	3144	N	GLY	A	410	-32.155	51.809	34.033	1.00	27.17	A
ATOM	3145	CA	GLY	A	410	-31.542	50.534	33.720	1.00	24.09	A
ATOM	3146	C	GLY	A	410	-30.573	50.111	34.798	1.00	24.46	A
ATOM	3147	O	GLY	A	410	-30.494	48.927	35.148	1.00	24.20	A

ATOM	3148	N	ASN	A	411	-29.827	51.072	35.336	1.00	24.39	A
ATOM	3149	CA	ASN	A	411	-28.867	50.748	36.378	1.00	24.32	A
ATOM	3150	CB	ASN	A	411	-27.907	51.912	36.613	1.00	22.12	A
ATOM	3151	CG	ASN	A	411	-26.751	51.917	35.621	1.00	24.24	A
ATOM	3152	OD1	ASN	A	411	-26.301	50.862	35.166	1.00	23.81	A
ATOM	3153	ND2	ASN	A	411	-26.253	53.103	35.296	1.00	24.64	A
ATOM	3154	C	ASN	A	411	-29.560	50.330	37.669	1.00	25.43	A
ATOM	3155	O	ASN	A	411	-29.081	49.430	38.366	1.00	26.11	A
ATOM	3156	N	ILE	A	412	-30.684	50.965	37.994	1.00	24.07	A
ATOM	3157	CA	ILE	A	412	-31.408	50.573	39.193	1.00	23.78	A
ATOM	3158	CB	ILE	A	412	-32.677	51.427	39.391	1.00	23.95	A
ATOM	3159	CG2	ILE	A	412	-33.682	50.686	40.269	1.00	19.59	A
ATOM	3160	CG1	ILE	A	412	-32.295	52.780	39.993	1.00	23.47	A
ATOM	3161	CD1	ILE	A	412	-33.472	53.711	40.188	1.00	26.33	A
ATOM	3162	C	ILE	A	412	-31.809	49.111	39.013	1.00	24.27	A
ATOM	3163	O	ILE	A	412	-31.520	48.266	39.851	1.00	25.26	A
ATOM	3164	N	ILE	A	413	-32.459	48.821	37.894	1.00	24.62	A
ATOM	3165	CA	ILE	A	413	-32.901	47.469	37.593	1.00	24.29	A
ATOM	3166	CB	ILE	A	413	-33.621	47.413	36.220	1.00	21.37	A
ATOM	3167	CG2	ILE	A	413	-34.000	45.991	35.907	1.00	19.33	A
ATOM	3168	CG1	ILE	A	413	-34.874	48.295	36.245	1.00	21.28	A
ATOM	3169	CD1	ILE	A	413	-35.686	48.311	34.949	1.00	17.14	A
ATOM	3170	C	ILE	A	413	-31.753	46.456	37.597	1.00	25.60	A
ATOM	3171	O	ILE	A	413	-31.899	45.352	38.120	1.00	26.35	A
ATOM	3172	N	MET	A	414	-30.609	46.823	37.028	1.00	25.27	A
ATOM	3173	CA	MET	A	414	-29.484	45.891	36.981	1.00	25.73	A
ATOM	3174	CB	MET	A	414	-28.599	46.200	35.771	1.00	27.23	A
ATOM	3175	CG	MET	A	414	-29.299	46.070	34.427	1.00	27.06	A
ATOM	3176	SD	MET	A	414	-29.912	44.400	34.116	1.00	29.41	A
ATOM	3177	CE	MET	A	414	-28.438	43.616	33.476	1.00	25.42	A
ATOM	3178	C	MET	A	414	-28.631	45.889	38.251	1.00	24.95	A
ATOM	3179	O	MET	A	414	-27.847	44.973	38.485	1.00	24.93	A
ATOM	3180	N	TYR	A	415	-28.794	46.909	39.081	1.00	24.42	A
ATOM	3181	CA	TYR	A	415	-28.018	46.998	40.301	1.00	22.40	A
ATOM	3182	CB	TYR	A	415	-26.989	48.098	40.157	1.00	20.01	A
ATOM	3183	CG	TYR	A	415	-25.970	47.767	39.116	1.00	18.45	A
ATOM	3184	CD1	TYR	A	415	-24.983	46.820	39.369	1.00	18.64	A
ATOM	3185	CE1	TYR	A	415	-24.020	46.501	38.405	1.00	18.97	A
ATOM	3186	CD2	TYR	A	415	-25.988	48.392	37.873	1.00	18.28	A
ATOM	3187	CE2	TYR	A	415	-25.042	48.085	36.904	1.00	18.39	A
ATOM	3188	CZ	TYR	A	415	-24.054	47.141	37.175	1.00	18.49	A
ATOM	3189	OH	TYR	A	415	-23.091	46.858	36.232	1.00	17.70	A
ATOM	3190	C	TYR	A	415	-28.855	47.236	41.528	1.00	22.51	A
ATOM	3191	O	TYR	A	415	-28.346	47.704	42.544	1.00	23.70	A
ATOM	3192	N	ALA	A	416	-30.133	46.884	41.443	1.00	22.47	A
ATOM	3193	CA	ALA	A	416	-31.052	47.063	42.560	1.00	23.88	A
ATOM	3194	CB	ALA	A	416	-32.357	46.335	42.280	1.00	23.99	A
ATOM	3195	C	ALA	A	416	-30.501	46.622	43.916	1.00	24.49	A
ATOM	3196	O	ALA	A	416	-30.914	47.147	44.942	1.00	27.01	A
ATOM	3197	N	PRO	A	417	-29.579	45.642	43.944	1.00	24.28	A
ATOM	3198	CD	PRO	A	417	-29.194	44.683	42.892	1.00	24.93	A
ATOM	3199	CA	PRO	A	417	-29.053	45.216	45.242	1.00	23.88	A
ATOM	3200	CB	PRO	A	417	-28.534	43.802	44.974	1.00	22.69	A
ATOM	3201	CG	PRO	A	417	-29.132	43.405	43.644	1.00	23.07	A
ATOM	3202	C	PRO	A	417	-27.934	46.104	45.760	1.00	24.99	A
ATOM	3203	O	PRO	A	417	-27.739	46.220	46.973	1.00	25.67	A
ATOM	3204	N	THR	A	418	-27.193	46.725	44.848	1.00	24.36	A
ATOM	3205	CA	THR	A	418	-26.070	47.546	45.265	1.00	24.11	A
ATOM	3206	CB	THR	A	418	-25.286	48.143	44.054	1.00	23.99	A
ATOM	3207	OG1	THR	A	418	-26.086	49.125	43.385	1.00	23.44	A
ATOM	3208	CG2	THR	A	418	-24.910	47.039	43.071	1.00	21.78	A
ATOM	3209	C	THR	A	418	-26.474	48.662	46.210	1.00	24.63	A
ATOM	3210	O	THR	A	418	-27.618	49.114	46.237	1.00	24.96	A
ATOM	3211	N	LEU	A	419	-25.500	49.072	47.003	1.00	24.85	A
ATOM	3212	CA	LEU	A	419	-25.633	50.125	47.989	1.00	24.45	A
ATOM	3213	CB	LEU	A	419	-24.288	50.281	48.683	1.00	26.20	A
ATOM	3214	CG	LEU	A	419	-24.182	51.143	49.920	1.00	28.81	A
ATOM	3215	CD1	LEU	A	419	-25.002	50.510	51.043	1.00	30.81	A
ATOM	3216	CD2	LEU	A	419	-22.725	51.239	50.318	1.00	31.68	A
ATOM	3217	C	LEU	A	419	-26.029	51.446	47.341	1.00	23.69	A
ATOM	3218	O	LEU	A	419	-27.031	52.055	47.696	1.00	24.58	A
ATOM	3219	N	TRP	A	420	-25.231	51.884	46.380	1.00	22.23	A
ATOM	3220	CA	TRP	A	420	-25.486	53.143	45.708	1.00	23.00	A
ATOM	3221	CB	TRP	A	420	-24.334	53.455	44.767	1.00	21.96	A
ATOM	3222	CG	TRP	A	420	-23.940	52.315	43.908	1.00	22.42	A

ATOM	3223	CD2	TRP	A	420	-24.327	52.102	42.552	1.00	20.89	A
ATOM	3224	CE2	TRP	A	420	-23.693	50.923	42.116	1.00	22.04	A
ATOM	3225	CE3	TRP	A	420	-25.149	52.794	41.663	1.00	19.08	A
ATOM	3226	CD1	TRP	A	420	-23.114	51.282	44.238	1.00	23.33	A
ATOM	3227	NE1	TRP	A	420	-22.956	50.439	43.164	1.00	23.55	A
ATOM	3228	CZ2	TRP	A	420	-23.854	50.424	40.824	1.00	22.17	A
ATOM	3229	CZ3	TRP	A	420	-25.309	52.299	40.384	1.00	20.27	A
ATOM	3230	CH2	TRP	A	420	-24.665	51.125	39.974	1.00	20.37	A
ATOM	3231	C	TRP	A	420	-26.812	53.241	44.955	1.00	23.66	A
ATOM	3232	O	TRP	A	420	-27.472	54.290	44.967	1.00	24.82	A
ATOM	3233	N	ALA	A	421	-27.204	52.158	44.300	1.00	22.69	A
ATOM	3234	CA	ALA	A	421	-28.447	52.155	43.548	1.00	22.68	A
ATOM	3235	CB	ALA	A	421	-28.598	50.839	42.808	1.00	21.97	A
ATOM	3236	C	ALA	A	421	-29.651	52.378	44.452	1.00	23.90	A
ATOM	3237	O	ALA	A	421	-30.576	53.113	44.106	1.00	25.07	A
ATOM	3238	N	ARG	A	422	-29.640	51.740	45.613	1.00	24.25	A
ATOM	3239	CA	ARG	A	422	-30.751	51.859	46.537	1.00	24.27	A
ATOM	3240	CB	ARG	A	422	-30.692	50.743	47.580	1.00	25.22	A
ATOM	3241	CG	ARG	A	422	-30.575	49.340	47.003	1.00	25.43	A
ATOM	3242	CD	ARG	A	422	-30.325	48.313	48.102	1.00	24.35	A
ATOM	3243	NE	ARG	A	422	-31.498	48.083	48.940	1.00	24.17	A
ATOM	3244	CZ	ARG	A	422	-31.439	47.523	50.144	1.00	23.60	A
ATOM	3245	NH1	ARG	A	422	-30.266	47.152	50.635	1.00	22.69	A
ATOM	3246	NH2	ARG	A	422	-32.542	47.323	50.853	1.00	23.24	A
ATOM	3247	C	ARG	A	422	-30.742	53.190	47.249	1.00	24.53	A
ATOM	3248	O	ARG	A	422	-31.735	53.915	47.254	1.00	23.68	A
ATOM	3249	N	MET	A	423	-29.604	53.513	47.848	1.00	25.03	A
ATOM	3250	CA	MET	A	423	-29.485	54.743	48.615	1.00	24.70	A
ATOM	3251	CB	MET	A	423	-28.258	54.667	49.520	1.00	23.18	A
ATOM	3252	CG	MET	A	423	-28.358	53.558	50.538	1.00	23.26	A
ATOM	3253	SD	MET	A	423	-27.067	53.599	51.769	1.00	28.00	A
ATOM	3254	CE	MET	A	423	-27.586	55.024	52.729	1.00	24.33	A
ATOM	3255	C	MET	A	423	-29.452	56.031	47.817	1.00	23.89	A
ATOM	3256	O	MET	A	423	-29.878	57.064	48.312	1.00	23.28	A
ATOM	3257	N	ILE	A	424	-28.955	55.983	46.588	1.00	23.46	A
ATOM	3258	CA	ILE	A	424	-28.877	57.202	45.795	1.00	22.87	A
ATOM	3259	CB	ILE	A	424	-27.423	57.446	45.315	1.00	21.79	A
ATOM	3260	CG2	ILE	A	424	-27.324	58.789	44.580	1.00	16.72	A
ATOM	3261	CG1	ILE	A	424	-26.480	57.405	46.529	1.00	19.30	A
ATOM	3262	CD1	ILE	A	424	-25.020	57.477	46.204	1.00	16.32	A
ATOM	3263	C	ILE	A	424	-29.821	57.227	44.600	1.00	24.52	A
ATOM	3264	O	ILE	A	424	-30.767	58.021	44.570	1.00	24.47	A
ATOM	3265	N	LEU	A	425	-29.568	56.357	43.624	1.00	25.00	A
ATOM	3266	CA	LEU	A	425	-30.391	56.303	42.426	1.00	23.56	A
ATOM	3267	CB	LEU	A	425	-29.996	55.109	41.568	1.00	23.31	A
ATOM	3268	CG	LEU	A	425	-28.640	55.327	40.885	1.00	23.26	A
ATOM	3269	CD1	LEU	A	425	-28.419	54.229	39.854	1.00	19.62	A
ATOM	3270	CD2	LEU	A	425	-28.610	56.717	40.218	1.00	19.02	A
ATOM	3271	C	LEU	A	425	-31.869	56.264	42.722	1.00	23.91	A
ATOM	3272	O	LEU	A	425	-32.635	57.025	42.139	1.00	26.09	A
ATOM	3273	N	MET	A	426	-32.286	55.387	43.625	1.00	22.96	A
ATOM	3274	CA	MET	A	426	-33.697	55.317	43.955	1.00	23.11	A
ATOM	3275	CB	MET	A	426	-33.975	54.103	44.838	1.00	21.89	A
ATOM	3276	CG	MET	A	426	-33.665	52.780	44.158	1.00	22.99	A
ATOM	3277	SD	MET	A	426	-34.375	51.346	45.019	1.00	23.90	A
ATOM	3278	CE	MET	A	426	-33.227	50.079	44.591	1.00	21.38	A
ATOM	3279	C	MET	A	426	-34.157	56.615	44.637	1.00	23.85	A
ATOM	3280	O	MET	A	426	-35.015	57.325	44.112	1.00	24.32	A
ATOM	3281	N	THR	A	427	-33.574	56.938	45.787	1.00	23.57	A
ATOM	3282	CA	THR	A	427	-33.934	58.150	46.520	1.00	23.43	A
ATOM	3283	CB	THR	A	427	-32.856	58.476	47.561	1.00	23.01	A
ATOM	3284	OG1	THR	A	427	-32.577	57.299	48.324	1.00	23.75	A
ATOM	3285	CG2	THR	A	427	-33.312	59.595	48.492	1.00	21.95	A
ATOM	3286	C	THR	A	427	-34.095	59.364	45.595	1.00	25.19	A
ATOM	3287	O	THR	A	427	-35.165	59.970	45.509	1.00	23.75	A
ATOM	3288	N	HIS	A	428	-33.016	59.691	44.894	1.00	26.39	A
ATOM	3289	CA	HIS	A	428	-32.968	60.825	43.985	1.00	27.47	A
ATOM	3290	CB	HIS	A	428	-31.623	60.841	43.264	1.00	28.04	A
ATOM	3291	CG	HIS	A	428	-31.468	61.984	42.317	1.00	29.64	A
ATOM	3292	CD2	HIS	A	428	-31.503	62.032	40.964	1.00	31.18	A
ATOM	3293	ND1	HIS	A	428	-31.287	63.281	42.743	1.00	31.15	A
ATOM	3294	CE1	HIS	A	428	-31.218	64.080	41.692	1.00	32.01	A
ATOM	3295	NE2	HIS	A	428	-31.346	63.348	40.600	1.00	31.57	A
ATOM	3296	C	HIS	A	428	-34.078	60.915	42.941	1.00	28.45	A
ATOM	3297	O	HIS	A	428	-34.707	61.971	42.787	1.00	28.21	A

ATOM	3298	N	PHE	A	429	-34.305	59.821	42.215	1.00	28.66	A
ATOM	3299	CA	PHE	A	429	-35.316	59.809	41.162	1.00	28.00	A
ATOM	3300	CB	PHE	A	429	-34.993	58.717	40.139	1.00	25.37	A
ATOM	3301	CG	PHE	A	429	-33.798	59.040	39.301	1.00	22.13	A
ATOM	3302	CD1	PHE	A	429	-33.841	60.090	38.391	1.00	21.89	A
ATOM	3303	CD2	PHE	A	429	-32.600	58.376	39.499	1.00	22.47	A
ATOM	3304	CE1	PHE	A	429	-32.702	60.489	37.691	1.00	22.97	A
ATOM	3305	CE2	PHE	A	429	-31.447	58.762	38.810	1.00	26.06	A
ATOM	3306	CZ	PHE	A	429	-31.498	59.828	37.902	1.00	24.65	A
ATOM	3307	C	PHE	A	429	-36.753	59.708	41.640	1.00	28.85	A
ATOM	3308	O	PHE	A	429	-37.639	60.354	41.076	1.00	29.99	A
ATOM	3309	N	PHE	A	430	-37.013	58.914	42.668	1.00	28.76	A
ATOM	3310	CA	PHE	A	430	-38.376	58.862	43.149	1.00	29.61	A
ATOM	3311	CB	PHE	A	430	-38.575	57.735	44.151	1.00	27.16	A
ATOM	3312	CG	PHE	A	430	-38.874	56.432	43.499	1.00	25.77	A
ATOM	3313	CD1	PHE	A	430	-37.846	55.590	43.084	1.00	24.72	A
ATOM	3314	CD2	PHE	A	430	-40.190	56.067	43.230	1.00	24.66	A
ATOM	3315	CE1	PHE	A	430	-38.126	54.401	42.408	1.00	23.17	A
ATOM	3316	CE2	PHE	A	430	-40.477	54.882	42.554	1.00	23.05	A
ATOM	3317	CZ	PHE	A	430	-39.441	54.050	42.144	1.00	23.43	A
ATOM	3318	C	PHE	A	430	-38.689	60.208	43.766	1.00	31.10	A
ATOM	3319	O	PHE	A	430	-39.824	60.674	43.723	1.00	32.14	A
ATOM	3320	N	SER	A	431	-37.668	60.846	44.323	1.00	33.17	A
ATOM	3321	CA	SER	A	431	-37.852	62.161	44.918	1.00	34.02	A
ATOM	3322	CB	SER	A	431	-36.527	62.690	45.467	1.00	35.34	A
ATOM	3323	OG	SER	A	431	-36.582	64.088	45.690	1.00	38.44	A
ATOM	3324	C	SER	A	431	-38.368	63.090	43.833	1.00	33.79	A
ATOM	3325	O	SER	A	431	-39.420	63.702	43.983	1.00	34.05	A
ATOM	3326	N	ILE	A	432	-37.624	63.176	42.734	1.00	34.58	A
ATOM	3327	CA	ILE	A	432	-37.983	64.035	41.605	1.00	35.14	A
ATOM	3328	CB	ILE	A	432	-36.850	64.091	40.552	1.00	34.68	A
ATOM	3329	CG2	ILE	A	432	-37.330	64.824	39.310	1.00	34.14	A
ATOM	3330	CG1	ILE	A	432	-35.620	64.784	41.127	1.00	34.19	A
ATOM	3331	CD1	ILE	A	432	-34.437	64.734	40.190	1.00	34.73	A
ATOM	3332	C	ILE	A	432	-39.256	63.607	40.872	1.00	36.44	A
ATOM	3333	O	ILE	A	432	-39.989	64.458	40.353	1.00	34.94	A
ATOM	3334	N	LEU	A	433	-39.517	62.301	40.804	1.00	36.44	A
ATOM	3335	CA	LEU	A	433	-40.714	61.848	40.106	1.00	36.90	A
ATOM	3336	CB	LEU	A	433	-40.657	60.340	39.837	1.00	36.04	A
ATOM	3337	CG	LEU	A	433	-39.668	59.957	38.723	1.00	34.73	A
ATOM	3338	CD1	LEU	A	433	-39.737	58.474	38.425	1.00	32.55	A
ATOM	3339	CD2	LEU	A	433	-39.984	60.754	37.474	1.00	32.30	A
ATOM	3340	C	LEU	A	433	-41.962	62.223	40.886	1.00	37.80	A
ATOM	3341	O	LEU	A	433	-43.017	62.448	40.304	1.00	38.55	A
ATOM	3342	N	LEU	A	434	-41.841	62.305	42.204	1.00	38.76	A
ATOM	3343	CA	LEU	A	434	-42.969	62.705	43.030	1.00	39.41	A
ATOM	3344	CB	LEU	A	434	-42.634	62.534	44.509	1.00	38.91	A
ATOM	3345	CG	LEU	A	434	-42.694	61.103	45.020	1.00	38.96	A
ATOM	3346	CD1	LEU	A	434	-42.204	61.018	46.459	1.00	38.12	A
ATOM	3347	CD2	LEU	A	434	-44.132	60.628	44.896	1.00	39.85	A
ATOM	3348	C	LEU	A	434	-43.249	64.176	42.746	1.00	40.16	A
ATOM	3349	O	LEU	A	434	-44.350	64.557	42.359	1.00	41.18	A
ATOM	3350	N	ALA	A	435	-42.227	64.997	42.929	1.00	40.54	A
ATOM	3351	CA	ALA	A	435	-42.343	66.425	42.710	1.00	42.20	A
ATOM	3352	CB	ALA	A	435	-40.970	67.077	42.865	1.00	42.27	A
ATOM	3353	C	ALA	A	435	-42.942	66.792	41.352	1.00	43.34	A
ATOM	3354	O	ALA	A	435	-43.515	67.869	41.193	1.00	44.86	A
ATOM	3355	N	GLN	A	436	-42.815	65.903	40.374	1.00	44.12	A
ATOM	3356	CA	GLN	A	436	-43.326	66.186	39.040	1.00	44.57	A
ATOM	3357	CB	GLN	A	436	-42.182	66.065	38.027	1.00	44.76	A
ATOM	3358	CG	GLN	A	436	-40.877	66.729	38.483	1.00	45.63	A
ATOM	3359	CD	GLN	A	436	-39.699	66.430	37.565	1.00	46.56	A
ATOM	3360	OE1	GLN	A	436	-39.683	65.410	36.868	1.00	48.46	A
ATOM	3361	NE2	GLN	A	436	-38.698	67.308	37.574	1.00	43.58	A
ATOM	3362	C	GLN	A	436	-44.470	65.247	38.664	1.00	44.99	A
ATOM	3363	O	GLN	A	436	-44.888	65.191	37.507	1.00	44.24	A
ATOM	3364	N	GLU	A	437	-44.986	64.524	39.652	1.00	46.30	A
ATOM	3365	CA	GLU	A	437	-46.071	63.573	39.424	1.00	48.16	A
ATOM	3366	CB	GLU	A	437	-47.420	64.288	39.445	1.00	49.84	A
ATOM	3367	CG	GLU	A	437	-47.920	64.628	40.839	1.00	52.21	A
ATOM	3368	CD	GLU	A	437	-49.118	65.561	40.817	1.00	54.18	A
ATOM	3369	OE1	GLU	A	437	-49.674	65.843	41.900	1.00	55.26	A
ATOM	3370	OE2	GLU	A	437	-49.501	66.018	39.716	1.00	55.63	A
ATOM	3371	C	GLU	A	437	-45.887	62.832	38.102	1.00	47.95	A
ATOM	3372	O	GLU	A	437	-46.733	62.887	37.207	1.00	47.76	A

ATOM	3373	N	GLN	A	438	-44.756	62.149	37.985	1.00	46.48	A
ATOM	3374	CA	GLN	A	438	-44.455	61.390	36.791	1.00	45.56	A
ATOM	3375	CB	GLN	A	438	-43.265	62.005	36.049	1.00	46.64	A
ATOM	3376	CG	GLN	A	438	-43.558	63.315	35.324	1.00	48.55	A
ATOM	3377	CD	GLN	A	438	-42.332	63.845	34.583	1.00	50.40	A
ATOM	3378	OE1	GLN	A	438	-41.325	64.216	35.199	1.00	51.28	A
ATOM	3379	NE2	GLN	A	438	-42.407	63.871	33.256	1.00	50.70	A
ATOM	3380	C	GLN	A	438	-44.153	59.947	37.163	1.00	44.26	A
ATOM	3381	O	GLN	A	438	-43.587	59.204	36.365	1.00	44.41	A
ATOM	3382	N	LEU	A	439	-44.537	59.554	38.375	1.00	42.87	A
ATOM	3383	CA	LEU	A	439	-44.314	58.188	38.845	1.00	43.10	A
ATOM	3384	CB	LEU	A	439	-44.876	57.995	40.257	1.00	41.53	A
ATOM	3385	CG	LEU	A	439	-44.136	58.648	41.421	1.00	41.73	A
ATOM	3386	CD1	LEU	A	439	-44.761	58.202	42.731	1.00	38.74	A
ATOM	3387	CD2	LEU	A	439	-42.662	58.259	41.369	1.00	41.52	A
ATOM	3388	C	LEU	A	439	-44.957	57.154	37.928	1.00	44.07	A
ATOM	3389	O	LEU	A	439	-44.593	55.974	37.957	1.00	43.34	A
ATOM	3390	N	GLU	A	440	-45.908	57.599	37.110	1.00	45.38	A
ATOM	3391	CA	GLU	A	440	-46.612	56.696	36.209	1.00	46.80	A
ATOM	3392	CB	GLU	A	440	-48.118	56.865	36.369	1.00	50.97	A
ATOM	3393	CG	GLU	A	440	-48.594	56.417	37.731	1.00	56.70	A
ATOM	3394	CD	GLU	A	440	-50.028	56.794	38.023	1.00	60.79	A
ATOM	3395	OE1	GLU	A	440	-50.376	57.977	37.794	1.00	62.13	A
ATOM	3396	OE2	GLU	A	440	-50.796	55.914	38.496	1.00	62.97	A
ATOM	3397	C	GLU	A	440	-46.235	56.859	34.767	1.00	44.11	A
ATOM	3398	O	GLU	A	440	-46.646	56.072	33.928	1.00	44.17	A
ATOM	3399	N	LYS	A	441	-45.454	57.886	34.477	1.00	42.92	A
ATOM	3400	CA	LYS	A	441	-45.009	58.118	33.115	1.00	42.18	A
ATOM	3401	CB	LYS	A	441	-44.446	59.530	32.985	1.00	41.74	A
ATOM	3402	CG	LYS	A	441	-43.985	59.903	31.600	1.00	42.28	A
ATOM	3403	CD	LYS	A	441	-43.315	61.264	31.634	1.00	43.77	A
ATOM	3404	CE	LYS	A	441	-42.787	61.675	30.275	1.00	44.87	A
ATOM	3405	NZ	LYS	A	441	-42.002	62.936	30.385	1.00	48.63	A
ATOM	3406	C	LYS	A	441	-43.932	57.087	32.787	1.00	42.19	A
ATOM	3407	O	LYS	A	441	-42.939	56.960	33.506	1.00	42.84	A
ATOM	3408	N	ALA	A	442	-44.138	56.336	31.713	1.00	41.57	A
ATOM	3409	CA	ALA	A	442	-43.167	55.328	31.313	1.00	41.67	A
ATOM	3410	CB	ALA	A	442	-43.807	54.346	30.342	1.00	39.84	A
ATOM	3411	C	ALA	A	442	-41.908	55.946	30.684	1.00	41.47	A
ATOM	3412	O	ALA	A	442	-41.982	56.898	29.898	1.00	39.96	A
ATOM	3413	N	LEU	A	443	-40.751	55.399	31.044	1.00	41.32	A
ATOM	3414	CA	LEU	A	443	-39.483	55.873	30.508	1.00	40.91	A
ATOM	3415	CB	LEU	A	443	-38.577	56.372	31.633	1.00	40.91	A
ATOM	3416	CG	LEU	A	443	-39.149	57.442	32.561	1.00	41.40	A
ATOM	3417	CD1	LEU	A	443	-38.119	57.756	33.631	1.00	41.50	A
ATOM	3418	CD2	LEU	A	443	-39.517	58.695	31.774	1.00	39.85	A
ATOM	3419	C	LEU	A	443	-38.785	54.735	29.778	1.00	39.84	A
ATOM	3420	O	LEU	A	443	-38.936	53.572	30.137	1.00	39.25	A
ATOM	3421	N	ASP	A	444	-38.025	55.071	28.747	1.00	40.05	A
ATOM	3422	CA	ASP	A	444	-37.301	54.053	28.004	1.00	39.81	A
ATOM	3423	CB	ASP	A	444	-37.121	54.457	26.529	1.00	40.69	A
ATOM	3424	CG	ASP	A	444	-38.440	54.588	25.781	1.00	42.26	A
ATOM	3425	OD1	ASP	A	444	-39.424	53.921	26.175	1.00	43.06	A
ATOM	3426	OD2	ASP	A	444	-38.489	55.348	24.785	1.00	41.57	A
ATOM	3427	C	ASP	A	444	-35.920	53.845	28.622	1.00	39.52	A
ATOM	3428	O	ASP	A	444	-35.093	54.755	28.642	1.00	40.02	A
ATOM	3429	N	CYS	A	445	-35.672	52.661	29.155	1.00	37.76	A
ATOM	3430	CA	CYS	A	445	-34.358	52.381	29.698	1.00	37.90	A
ATOM	3431	CB	CYS	A	445	-34.460	51.781	31.093	1.00	38.36	A
ATOM	3432	SG	CYS	A	445	-35.284	50.201	31.113	1.00	38.24	A
ATOM	3433	C	CYS	A	445	-33.776	51.363	28.725	1.00	38.73	A
ATOM	3434	O	CYS	A	445	-34.342	51.134	27.658	1.00	37.71	A
ATOM	3435	N	GLN	A	446	-32.666	50.733	29.078	1.00	39.01	A
ATOM	3436	CA	GLN	A	446	-32.080	49.772	28.167	1.00	38.69	A
ATOM	3437	CB	GLN	A	446	-31.091	50.482	27.250	1.00	41.32	A
ATOM	3438	CG	GLN	A	446	-31.234	50.113	25.790	1.00	44.46	A
ATOM	3439	CD	GLN	A	446	-30.296	50.911	24.898	1.00	46.57	A
ATOM	3440	OE1	GLN	A	446	-29.068	50.742	24.948	1.00	45.53	A
ATOM	3441	NE2	GLN	A	446	-30.871	51.794	24.079	1.00	45.59	A
ATOM	3442	C	GLN	A	446	-31.386	48.629	28.886	1.00	38.16	A
ATOM	3443	O	GLN	A	446	-30.604	48.841	29.817	1.00	37.87	A
ATOM	3444	N	ILE	A	447	-31.682	47.415	28.433	1.00	36.97	A
ATOM	3445	CA	ILE	A	447	-31.112	46.202	28.990	1.00	34.76	A
ATOM	3446	CB	ILE	A	447	-32.197	45.396	29.701	1.00	33.87	A
ATOM	3447	CG2	ILE	A	447	-31.605	44.133	30.315	1.00	31.15	A

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ATOM   3448  CG1 ILE A 447     -32.845  46.282  30.768  1.00 33.64      A
ATOM   3449  CD1 ILE A 447     -33.988  45.641  31.492  1.00 35.77      A
ATOM   3450  C   ILE A 447     -30.501  45.388  27.852  1.00 35.73      A
ATOM   3451  O   ILE A 447     -31.189  45.034  26.899  1.00 36.13      A
ATOM   3452  N   TYR A 448     -29.203  45.112  27.952  1.00 36.68      A
ATOM   3453  CA  TYR A 448     -28.480  44.358  26.936  1.00 36.50      A
ATOM   3454  CB  TYR A 448     -28.784  42.864  27.032  1.00 37.33      A
ATOM   3455  CG  TYR A 448     -28.323  42.210  28.302  1.00 38.01      A
ATOM   3456  CD1 TYR A 448     -27.191  42.667  28.983  1.00 38.32      A
ATOM   3457  CE1 TYR A 448     -26.737  42.018  30.137  1.00 39.05      A
ATOM   3458  CD2 TYR A 448     -28.991  41.095  28.801  1.00 40.14      A
ATOM   3459  CE2 TYR A 448     -28.548  40.441  29.948  1.00 40.49      A
ATOM   3460  CZ  TYR A 448     -27.423  40.905  30.607  1.00 39.43      A
ATOM   3461  OH  TYR A 448     -26.991  40.234  31.722  1.00 40.55      A
ATOM   3462  C   TYR A 448     -28.811  44.828  25.531  1.00 36.77      A
ATOM   3463  O   TYR A 448     -29.222  44.037  24.679  1.00 34.95      A
ATOM   3464  N   GLY A 449     -28.623  46.120  25.289  1.00 38.04      A
ATOM   3465  CA  GLY A 449     -28.901  46.658  23.973  1.00 38.93      A
ATOM   3466  C   GLY A 449     -30.376  46.875  23.701  1.00 39.54      A
ATOM   3467  O   GLY A 449     -30.745  47.891  23.117  1.00 41.19      A
ATOM   3468  N   ALA A 450     -31.217  45.928  24.109  1.00 38.84      A
ATOM   3469  CA  ALA A 450     -32.657  46.039  23.897  1.00 38.82      A
ATOM   3470  CB  ALA A 450     -33.348  44.734  24.299  1.00 39.97      A
ATOM   3471  C   ALA A 450     -33.275  47.215  24.665  1.00 38.61      A
ATOM   3472  O   ALA A 450     -32.990  47.429  25.842  1.00 36.72      A
ATOM   3473  N   CYS A 451     -34.129  47.969  23.982  1.00 38.46      A
ATOM   3474  CA  CYS A 451     -34.793  49.113  24.577  1.00 37.91      A
ATOM   3475  CB  CYS A 451     -34.991  50.207  23.534  1.00 37.04      A
ATOM   3476  SG  CYS A 451     -35.872  51.655  24.155  1.00 38.78      A
ATOM   3477  C   CYS A 451     -36.143  48.705  25.135  1.00 39.00      A
ATOM   3478  O   CYS A 451     -36.978  48.168  24.409  1.00 39.77      A
ATOM   3479  N   TYR A 452     -36.349  48.968  26.425  1.00 40.91      A
ATOM   3480  CA  TYR A 452     -37.598  48.647  27.121  1.00 41.78      A
ATOM   3481  CB  TYR A 452     -37.314  47.760  28.339  1.00 42.87      A
ATOM   3482  CG  TYR A 452     -36.921  46.343  28.003  1.00 45.51      A
ATOM   3483  CD1 TYR A 452     -37.889  45.385  27.696  1.00 46.56      A
ATOM   3484  CE1 TYR A 452     -37.530  44.089  27.341  1.00 48.07      A
ATOM   3485  CD2 TYR A 452     -35.577  45.969  27.951  1.00 46.60      A
ATOM   3486  CE2 TYR A 452     -35.204  44.682  27.599  1.00 48.05      A
ATOM   3487  CZ  TYR A 452     -36.183  43.744  27.293  1.00 49.40      A
ATOM   3488  OH  TYR A 452     -35.816  42.464  26.933  1.00 50.46      A
ATOM   3489  C   TYR A 452     -38.326  49.906  27.599  1.00 41.85      A
ATOM   3490  O   TYR A 452     -37.703  50.916  27.930  1.00 41.71      A
ATOM   3491  N   SER A 453     -39.652  49.844  27.626  1.00 41.48      A
ATOM   3492  CA  SER A 453     -40.445  50.963  28.107  1.00 41.78      A
ATOM   3493  CB  SER A 453     -41.637  51.218  27.186  1.00 40.49      A
ATOM   3494  OG  SER A 453     -42.258  52.447  27.516  1.00 40.52      A
ATOM   3495  C   SER A 453     -40.913  50.515  29.486  1.00 42.94      A
ATOM   3496  O   SER A 453     -41.504  49.442  29.624  1.00 43.47      A
ATOM   3497  N   ILE A 454     -40.647  51.323  30.512  1.00 43.53      A
ATOM   3498  CA  ILE A 454     -41.019  50.940  31.875  1.00 43.07      A
ATOM   3499  CB  ILE A 454     -39.809  50.341  32.608  1.00 40.97      A
ATOM   3500  CG2 ILE A 454     -40.192  49.973  34.029  1.00 40.52      A
ATOM   3501  CG1 ILE A 454     -39.298  49.125  31.843  1.00 39.28      A
ATOM   3502  CD1 ILE A 454     -38.138  48.433  32.508  1.00 41.21      A
ATOM   3503  C   ILE A 454     -41.600  52.022  32.779  1.00 43.88      A
ATOM   3504  O   ILE A 454     -41.172  53.179  32.756  1.00 45.20      A
ATOM   3505  N   GLU A 455     -42.578  51.627  33.587  1.00 43.62      A
ATOM   3506  CA  GLU A 455     -43.184  52.553  34.527  1.00 43.80      A
ATOM   3507  CB  GLU A 455     -44.670  52.249  34.748  1.00 46.02      A
ATOM   3508  CG  GLU A 455     -45.609  52.619  33.600  1.00 48.35      A
ATOM   3509  CD  GLU A 455     -47.081  52.534  34.012  1.00 50.01      A
ATOM   3510  OE1 GLU A 455     -47.541  53.412  34.779  1.00 51.01      A
ATOM   3511  OE2 GLU A 455     -47.774  51.581  33.586  1.00 50.76      A
ATOM   3512  C   GLU A 455     -42.451  52.372  35.844  1.00 42.14      A
ATOM   3513  O   GLU A 455     -42.378  51.262  36.373  1.00 41.90      A
ATOM   3514  N   PRO A 456     -41.897  53.463  36.389  1.00 40.15      A
ATOM   3515  CD  PRO A 456     -41.957  54.821  35.821  1.00 39.87      A
ATOM   3516  CA  PRO A 456     -41.160  53.462  37.658  1.00 38.35      A
ATOM   3517  CB  PRO A 456     -40.999  54.945  37.959  1.00 38.39      A
ATOM   3518  CG  PRO A 456     -40.878  55.536  36.603  1.00 39.32      A
ATOM   3519  C   PRO A 456     -41.928  52.745  38.761  1.00 36.43      A
ATOM   3520  O   PRO A 456     -41.348  52.146  39.655  1.00 35.54      A
ATOM   3521  N   LEU A 457     -43.246  52.811  38.693  1.00 36.67      A
ATOM   3522  CA  LEU A 457     -44.070  52.164  39.694  1.00 36.31      A
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ATOM	3523	CB	LEU	A	457	-45.518	52.609	39.537	1.00	35.66	A
ATOM	3524	CG	LEU	A	457	-45.691	54.082	39.897	1.00	36.34	A
ATOM	3525	CD1	LEU	A	457	-47.093	54.499	39.582	1.00	35.67	A
ATOM	3526	CD2	LEU	A	457	-45.375	54.307	41.383	1.00	34.56	A
ATOM	3527	C	LEU	A	457	-43.991	50.649	39.664	1.00	35.55	A
ATOM	3528	O	LEU	A	457	-44.374	49.997	40.627	1.00	36.48	A
ATOM	3529	N	ASP	A	458	-43.493	50.082	38.572	1.00	34.64	A
ATOM	3530	CA	ASP	A	458	-43.392	48.633	38.482	1.00	35.24	A
ATOM	3531	CB	ASP	A	458	-43.475	48.170	37.019	1.00	38.89	A
ATOM	3532	CG	ASP	A	458	-44.892	48.226	36.453	1.00	40.50	A
ATOM	3533	OD1	ASP	A	458	-45.821	47.685	37.092	1.00	40.16	A
ATOM	3534	OD2	ASP	A	458	-45.066	48.804	35.357	1.00	43.70	A
ATOM	3535	C	ASP	A	458	-42.111	48.086	39.096	1.00	33.57	A
ATOM	3536	O	ASP	A	458	-42.053	46.921	39.489	1.00	33.82	A
ATOM	3537	N	LEU	A	459	-41.094	48.936	39.185	1.00	32.06	A
ATOM	3538	CA	LEU	A	459	-39.792	48.548	39.711	1.00	30.38	A
ATOM	3539	CB	LEU	A	459	-39.024	49.788	40.189	1.00	28.87	A
ATOM	3540	CG	LEU	A	459	-38.394	50.610	39.050	1.00	28.11	A
ATOM	3541	CD1	LEU	A	459	-37.854	51.926	39.588	1.00	25.37	A
ATOM	3542	CD2	LEU	A	459	-37.281	49.797	38.378	1.00	27.60	A
ATOM	3543	C	LEU	A	459	-39.787	47.470	40.784	1.00	29.49	A
ATOM	3544	O	LEU	A	459	-39.048	46.501	40.671	1.00	30.52	A
ATOM	3545	N	PRO	A	460	-40.617	47.612	41.827	1.00	29.35	A
ATOM	3546	CD	PRO	A	460	-41.564	48.712	42.081	1.00	28.86	A
ATOM	3547	CA	PRO	A	460	-40.683	46.624	42.909	1.00	29.69	A
ATOM	3548	CB	PRO	A	460	-41.868	47.109	43.734	1.00	28.65	A
ATOM	3549	CG	PRO	A	460	-41.799	48.587	43.566	1.00	27.67	A
ATOM	3550	C	PRO	A	460	-40.873	45.191	42.414	1.00	31.03	A
ATOM	3551	O	PRO	A	460	-40.143	44.284	42.831	1.00	30.13	A
ATOM	3552	N	GLN	A	461	-41.862	44.997	41.538	1.00	31.81	A
ATOM	3553	CA	GLN	A	461	-42.155	43.688	40.957	1.00	34.37	A
ATOM	3554	CB	GLN	A	461	-43.328	43.775	39.973	1.00	38.81	A
ATOM	3555	CG	GLN	A	461	-44.698	44.078	40.563	1.00	44.12	A
ATOM	3556	CD	GLN	A	461	-44.936	45.562	40.801	1.00	47.00	A
ATOM	3557	OE1	GLN	A	461	-44.330	46.174	41.691	1.00	47.87	A
ATOM	3558	NE2	GLN	A	461	-45.825	46.151	39.997	1.00	47.37	A
ATOM	3559	C	GLN	A	461	-40.933	43.200	40.180	1.00	34.82	A
ATOM	3560	O	GLN	A	461	-40.450	42.076	40.358	1.00	34.43	A
ATOM	3561	N	ILE	A	462	-40.459	44.067	39.296	1.00	33.97	A
ATOM	3562	CA	ILE	A	462	-39.307	43.784	38.470	1.00	33.76	A
ATOM	3563	CB	ILE	A	462	-38.921	45.033	37.662	1.00	33.62	A
ATOM	3564	CG2	ILE	A	462	-37.638	44.787	36.885	1.00	34.80	A
ATOM	3565	CG1	ILE	A	462	-40.062	45.384	36.707	1.00	32.84	A
ATOM	3566	CD1	ILE	A	462	-39.829	46.645	35.909	1.00	32.90	A
ATOM	3567	C	ILE	A	462	-38.137	43.347	39.338	1.00	34.07	A
ATOM	3568	O	ILE	A	462	-37.595	42.260	39.157	1.00	34.24	A
ATOM	3569	N	ILE	A	463	-37.758	44.196	40.285	1.00	34.19	A
ATOM	3570	CA	ILE	A	463	-36.649	43.893	41.179	1.00	34.08	A
ATOM	3571	CB	ILE	A	463	-36.433	45.035	42.212	1.00	31.86	A
ATOM	3572	CG2	ILE	A	463	-35.525	44.566	43.333	1.00	28.53	A
ATOM	3573	CG1	ILE	A	463	-35.837	46.261	41.508	1.00	29.19	A
ATOM	3574	CD1	ILE	A	463	-35.616	47.441	42.403	1.00	26.78	A
ATOM	3575	C	ILE	A	463	-36.833	42.567	41.916	1.00	36.27	A
ATOM	3576	O	ILE	A	463	-35.892	41.773	42.001	1.00	36.23	A
ATOM	3577	N	GLU	A	464	-38.032	42.316	42.443	1.00	37.45	A
ATOM	3578	CA	GLU	A	464	-38.266	41.063	43.163	1.00	39.78	A
ATOM	3579	CB	GLU	A	464	-39.678	41.016	43.765	1.00	40.89	A
ATOM	3580	CG	GLU	A	464	-39.926	39.758	44.606	1.00	41.12	A
ATOM	3581	CD	GLU	A	464	-41.385	39.561	44.985	1.00	41.63	A
ATOM	3582	OE1	GLU	A	464	-42.252	40.278	44.441	1.00	42.32	A
ATOM	3583	OE2	GLU	A	464	-41.670	38.678	45.821	1.00	41.28	A
ATOM	3584	C	GLU	A	464	-38.062	39.840	42.264	1.00	40.51	A
ATOM	3585	O	GLU	A	464	-37.473	38.840	42.694	1.00	40.10	A
ATOM	3586	N	ARG	A	465	-38.545	39.923	41.024	1.00	40.43	A
ATOM	3587	CA	ARG	A	465	-38.409	38.820	40.071	1.00	40.75	A
ATOM	3588	CB	ARG	A	465	-39.339	39.023	38.867	1.00	42.05	A
ATOM	3589	CG	ARG	A	465	-40.816	38.710	39.139	1.00	45.89	A
ATOM	3590	CD	ARG	A	465	-41.127	37.206	39.115	1.00	46.96	A
ATOM	3591	NE	ARG	A	465	-40.994	36.638	37.768	1.00	49.46	A
ATOM	3592	CZ	ARG	A	465	-41.750	36.971	36.719	1.00	48.78	A
ATOM	3593	NH1	ARG	A	465	-42.716	37.875	36.843	1.00	48.44	A
ATOM	3594	NH2	ARG	A	465	-41.527	36.410	35.536	1.00	47.77	A
ATOM	3595	C	ARG	A	465	-36.983	38.588	39.564	1.00	39.71	A
ATOM	3596	O	ARG	A	465	-36.547	37.447	39.448	1.00	41.07	A
ATOM	3597	N	LEU	A	466	-36.254	39.656	39.266	1.00	37.56	A

ATOM	3598	CA	LEU	A	466	-34.892	39.515	38.756	1.00	35.90	A
ATOM	3599	CB	LEU	A	466	-34.526	40.725	37.891	1.00	34.83	A
ATOM	3600	CG	LEU	A	466	-35.583	41.226	36.910	1.00	34.48	A
ATOM	3601	CD1	LEU	A	466	-35.073	42.453	36.192	1.00	31.14	A
ATOM	3602	CD2	LEU	A	466	-35.925	40.131	35.929	1.00	33.31	A
ATOM	3603	C	LEU	A	466	-33.820	39.364	39.837	1.00	35.86	A
ATOM	3604	O	LEU	A	466	-32.674	39.035	39.530	1.00	37.84	A
ATOM	3605	N	HIS	A	467	-34.174	39.604	41.092	1.00	34.62	A
ATOM	3606	CA	HIS	A	467	-33.194	39.526	42.164	1.00	33.57	A
ATOM	3607	CB	HIS	A	467	-32.854	40.929	42.638	1.00	31.65	A
ATOM	3608	CG	HIS	A	467	-32.183	41.779	41.608	1.00	31.57	A
ATOM	3609	CD2	HIS	A	467	-32.641	42.827	40.882	1.00	31.47	A
ATOM	3610	ND1	HIS	A	467	-30.866	41.607	41.243	1.00	31.50	A
ATOM	3611	CE1	HIS	A	467	-30.540	42.515	40.339	1.00	31.53	A
ATOM	3612	NE2	HIS	A	467	-31.600	43.268	40.103	1.00	30.55	A
ATOM	3613	C	HIS	A	467	-33.633	38.712	43.374	1.00	35.82	A
ATOM	3614	O	HIS	A	467	-32.805	38.086	44.038	1.00	36.25	A
ATOM	3615	N	GLY	A	468	-34.931	38.731	43.665	1.00	37.21	A
ATOM	3616	CA	GLY	A	468	-35.446	38.009	44.815	1.00	37.20	A
ATOM	3617	C	GLY	A	468	-35.657	39.020	45.923	1.00	37.54	A
ATOM	3618	O	GLY	A	468	-35.076	40.098	45.870	1.00	37.93	A
ATOM	3619	N	LEU	A	469	-36.465	38.690	46.925	1.00	37.23	A
ATOM	3620	CA	LEU	A	469	-36.729	39.631	48.012	1.00	37.02	A
ATOM	3621	CB	LEU	A	469	-37.673	39.015	49.058	1.00	35.79	A
ATOM	3622	CG	LEU	A	469	-39.168	38.984	48.708	1.00	35.34	A
ATOM	3623	CD1	LEU	A	469	-39.968	38.396	49.865	1.00	33.95	A
ATOM	3624	CD2	LEU	A	469	-39.642	40.387	48.397	1.00	33.72	A
ATOM	3625	C	LEU	A	469	-35.489	40.176	48.716	1.00	36.70	A
ATOM	3626	O	LEU	A	469	-35.530	41.270	49.268	1.00	37.64	A
ATOM	3627	N	SER	A	470	-34.388	39.435	48.700	1.00	35.94	A
ATOM	3628	CA	SER	A	470	-33.184	39.903	49.381	1.00	35.03	A
ATOM	3629	CB	SER	A	470	-32.035	38.906	49.200	1.00	35.22	A
ATOM	3630	OG	SER	A	470	-31.625	38.842	47.845	1.00	36.88	A
ATOM	3631	C	SER	A	470	-32.734	41.276	48.897	1.00	34.28	A
ATOM	3632	O	SER	A	470	-31.973	41.956	49.583	1.00	34.57	A
ATOM	3633	N	ALA	A	471	-33.204	41.687	47.722	1.00	33.36	A
ATOM	3634	CA	ALA	A	471	-32.820	42.982	47.156	1.00	32.35	A
ATOM	3635	CB	ALA	A	471	-33.233	43.060	45.701	1.00	30.59	A
ATOM	3636	C	ALA	A	471	-33.400	44.165	47.916	1.00	32.09	A
ATOM	3637	O	ALA	A	471	-32.998	45.307	47.697	1.00	34.50	A
ATOM	3638	N	PHE	A	472	-34.351	43.893	48.801	1.00	31.50	A
ATOM	3639	CA	PHE	A	472	-34.981	44.943	49.593	1.00	30.44	A
ATOM	3640	CB	PHE	A	472	-36.500	44.803	49.545	1.00	30.10	A
ATOM	3641	CG	PHE	A	472	-37.054	44.774	48.164	1.00	29.46	A
ATOM	3642	CD1	PHE	A	472	-36.832	45.832	47.290	1.00	29.23	A
ATOM	3643	CD2	PHE	A	472	-37.780	43.678	47.726	1.00	29.44	A
ATOM	3644	CE1	PHE	A	472	-37.322	45.797	45.993	1.00	29.22	A
ATOM	3645	CE2	PHE	A	472	-38.275	43.631	46.432	1.00	30.05	A
ATOM	3646	CZ	PHE	A	472	-38.044	44.694	45.563	1.00	29.96	A
ATOM	3647	C	PHE	A	472	-34.522	44.879	51.042	1.00	30.24	A
ATOM	3648	O	PHE	A	472	-34.852	45.750	51.846	1.00	30.03	A
ATOM	3649	N	THR	A	473	-33.756	43.848	51.372	1.00	29.66	A
ATOM	3650	CA	THR	A	473	-33.278	43.691	52.730	1.00	29.02	A
ATOM	3651	CB	THR	A	473	-33.968	42.488	53.406	1.00	30.71	A
ATOM	3652	OG1	THR	A	473	-33.638	41.278	52.708	1.00	33.01	A
ATOM	3653	CG2	THR	A	473	-35.476	42.678	53.370	1.00	31.83	A
ATOM	3654	C	THR	A	473	-31.770	43.538	52.824	1.00	27.18	A
ATOM	3655	O	THR	A	473	-31.232	43.404	53.919	1.00	29.03	A
ATOM	3656	N	LEU	A	474	-31.081	43.559	51.690	1.00	25.89	A
ATOM	3657	CA	LEU	A	474	-29.626	43.427	51.718	1.00	25.42	A
ATOM	3658	CB	LEU	A	474	-29.032	43.632	50.325	1.00	23.56	A
ATOM	3659	CG	LEU	A	474	-28.153	42.499	49.773	1.00	24.56	A
ATOM	3660	CD1	LEU	A	474	-28.862	41.145	49.849	1.00	22.16	A
ATOM	3661	CD2	LEU	A	474	-27.794	42.826	48.338	1.00	23.44	A
ATOM	3662	C	LEU	A	474	-29.095	44.479	52.681	1.00	25.60	A
ATOM	3663	O	LEU	A	474	-29.642	45.584	52.782	1.00	26.18	A
ATOM	3664	N	HIS	A	475	-28.045	44.131	53.407	1.00	25.05	A
ATOM	3665	CA	HIS	A	475	-27.483	45.046	54.383	1.00	25.42	A
ATOM	3666	CB	HIS	A	475	-28.423	45.160	55.590	1.00	25.81	A
ATOM	3667	CG	HIS	A	475	-28.285	44.035	56.574	1.00	29.73	A
ATOM	3668	CD2	HIS	A	475	-28.919	42.840	56.659	1.00	30.90	A
ATOM	3669	ND1	HIS	A	475	-27.366	44.052	57.603	1.00	30.76	A
ATOM	3670	CE1	HIS	A	475	-27.439	42.917	58.277	1.00	30.62	A
ATOM	3671	NE2	HIS	A	475	-28.373	42.163	57.725	1.00	30.89	A
ATOM	3672	C	HIS	A	475	-26.133	44.532	54.848	1.00	24.81	A

ATOM	3673	O	HIS	A	475	-25.762	43.392	54.584	1.00	22.42	A
ATOM	3674	N	SER	A	476	-25.405	45.378	55.560	1.00	26.11	A
ATOM	3675	CA	SER	A	476	-24.107	44.985	56.063	1.00	27.14	A
ATOM	3676	CB	SER	A	476	-24.276	43.763	56.976	1.00	27.08	A
ATOM	3677	OG	SER	A	476	-23.057	43.393	57.588	1.00	29.41	A
ATOM	3678	C	SER	A	476	-23.226	44.656	54.857	1.00	26.90	A
ATOM	3679	O	SER	A	476	-22.838	43.505	54.647	1.00	28.43	A
ATOM	3680	N	TYR	A	477	-22.924	45.673	54.055	1.00	26.68	A
ATOM	3681	CA	TYR	A	477	-22.095	45.476	52.868	1.00	26.03	A
ATOM	3682	CB	TYR	A	477	-22.326	46.596	51.844	1.00	23.27	A
ATOM	3683	CG	TYR	A	477	-23.711	46.619	51.231	1.00	21.40	A
ATOM	3684	CD1	TYR	A	477	-24.815	47.056	51.960	1.00	20.18	A
ATOM	3685	CE1	TYR	A	477	-26.092	47.109	51.386	1.00	19.32	A
ATOM	3686	CD2	TYR	A	477	-23.914	46.227	49.910	1.00	22.61	A
ATOM	3687	CE2	TYR	A	477	-25.196	46.273	49.321	1.00	21.36	A
ATOM	3688	CZ	TYR	A	477	-26.277	46.718	50.067	1.00	20.88	A
ATOM	3689	OH	TYR	A	477	-27.534	46.784	49.494	1.00	20.58	A
ATOM	3690	C	TYR	A	477	-20.622	45.410	53.243	1.00	25.07	A
ATOM	3691	O	TYR	A	477	-20.220	45.914	54.275	1.00	25.09	A
ATOM	3692	N	SER	A	478	-19.822	44.770	52.404	1.00	26.55	A
ATOM	3693	CA	SER	A	478	-18.401	44.639	52.679	1.00	28.25	A
ATOM	3694	CB	SER	A	478	-17.745	43.764	51.614	1.00	27.96	A
ATOM	3695	OG	SER	A	478	-17.849	44.378	50.345	1.00	27.65	A
ATOM	3696	C	SER	A	478	-17.740	46.011	52.704	1.00	29.70	A
ATOM	3697	O	SER	A	478	-18.136	46.916	51.972	1.00	30.93	A
ATOM	3698	N	PRO	A	479	-16.709	46.180	53.543	1.00	30.71	A
ATOM	3699	CD	PRO	A	479	-16.045	45.148	54.357	1.00	31.67	A
ATOM	3700	CA	PRO	A	479	-16.004	47.462	53.647	1.00	30.65	A
ATOM	3701	CB	PRO	A	479	-14.864	47.157	54.621	1.00	30.46	A
ATOM	3702	CG	PRO	A	479	-15.371	45.982	55.413	1.00	31.31	A
ATOM	3703	C	PRO	A	479	-15.481	47.934	52.288	1.00	31.00	A
ATOM	3704	O	PRO	A	479	-15.644	49.099	51.916	1.00	32.12	A
ATOM	3705	N	GLY	A	480	-14.846	47.024	51.556	1.00	30.58	A
ATOM	3706	CA	GLY	A	480	-14.312	47.375	50.255	1.00	29.83	A
ATOM	3707	C	GLY	A	480	-15.355	48.056	49.395	1.00	30.54	A
ATOM	3708	O	GLY	A	480	-15.095	49.099	48.787	1.00	30.73	A
ATOM	3709	N	GLU	A	481	-16.547	47.472	49.355	1.00	29.63	A
ATOM	3710	CA	GLU	A	481	-17.631	48.023	48.557	1.00	27.74	A
ATOM	3711	CB	GLU	A	481	-18.791	47.020	48.515	1.00	25.47	A
ATOM	3712	CG	GLU	A	481	-20.050	47.495	47.803	1.00	22.71	A
ATOM	3713	CD	GLU	A	481	-19.800	47.949	46.389	1.00	20.73	A
ATOM	3714	OE1	GLU	A	481	-18.671	47.762	45.893	1.00	19.76	A
ATOM	3715	OE2	GLU	A	481	-20.740	48.489	45.771	1.00	17.94	A
ATOM	3716	C	GLU	A	481	-18.080	49.372	49.111	1.00	27.83	A
ATOM	3717	O	GLU	A	481	-18.396	50.277	48.353	1.00	27.48	A
ATOM	3718	N	ILE	A	482	-18.093	49.512	50.432	1.00	29.33	A
ATOM	3719	CA	ILE	A	482	-18.500	50.775	51.052	1.00	31.26	A
ATOM	3720	CB	ILE	A	482	-18.624	50.663	52.598	1.00	31.31	A
ATOM	3721	CG2	ILE	A	482	-18.956	52.035	53.190	1.00	30.26	A
ATOM	3722	CG1	ILE	A	482	-19.714	49.653	52.976	1.00	30.75	A
ATOM	3723	CD1	ILE	A	482	-19.927	49.524	54.482	1.00	26.95	A
ATOM	3724	C	ILE	A	482	-17.494	51.889	50.759	1.00	31.55	A
ATOM	3725	O	ILE	A	482	-17.874	53.006	50.399	1.00	31.70	A
ATOM	3726	N	ASN	A	483	-16.214	51.580	50.921	1.00	30.76	A
ATOM	3727	CA	ASN	A	483	-15.162	52.560	50.685	1.00	31.41	A
ATOM	3728	CB	ASN	A	483	-13.798	51.961	51.041	1.00	35.88	A
ATOM	3729	CG	ASN	A	483	-13.645	51.702	52.539	1.00	38.90	A
ATOM	3730	OD1	ASN	A	483	-14.478	51.034	53.168	1.00	39.61	A
ATOM	3731	ND2	ASN	A	483	-12.573	52.234	53.116	1.00	41.79	A
ATOM	3732	C	ASN	A	483	-15.150	53.069	49.256	1.00	28.38	A
ATOM	3733	O	ASN	A	483	-15.050	54.265	49.019	1.00	28.34	A
ATOM	3734	N	ARG	A	484	-15.256	52.158	48.300	1.00	27.54	A
ATOM	3735	CA	ARG	A	484	-15.259	52.555	46.901	1.00	25.67	A
ATOM	3736	CB	ARG	A	484	-15.427	51.342	45.980	1.00	23.88	A
ATOM	3737	CG	ARG	A	484	-15.506	51.715	44.499	1.00	23.06	A
ATOM	3738	CD	ARG	A	484	-15.235	50.522	43.585	1.00	22.61	A
ATOM	3739	NE	ARG	A	484	-16.353	49.589	43.521	1.00	23.04	A
ATOM	3740	CZ	ARG	A	484	-16.306	48.428	42.883	1.00	22.64	A
ATOM	3741	NH1	ARG	A	484	-15.197	48.071	42.266	1.00	23.09	A
ATOM	3742	NH2	ARG	A	484	-17.361	47.626	42.859	1.00	23.47	A
ATOM	3743	C	ARG	A	484	-16.397	53.519	46.684	1.00	25.06	A
ATOM	3744	O	ARG	A	484	-16.248	54.533	46.008	1.00	25.65	A
ATOM	3745	N	VAL	A	485	-17.540	53.206	47.276	1.00	23.95	A
ATOM	3746	CA	VAL	A	485	-18.702	54.061	47.125	1.00	23.12	A
ATOM	3747	CB	VAL	A	485	-19.952	53.373	47.692	1.00	20.83	A

ATOM	3748	CG1	VAL	A	485	-21.096	54.370	47.841	1.00	20.72	A
ATOM	3749	CG2	VAL	A	485	-20.360	52.275	46.754	1.00	19.42	A
ATOM	3750	C	VAL	A	485	-18.539	55.445	47.746	1.00	22.45	A
ATOM	3751	O	VAL	A	485	-18.797	56.451	47.087	1.00	22.16	A
ATOM	3752	N	ALA	A	486	-18.110	55.493	49.004	1.00	22.36	A
ATOM	3753	CA	ALA	A	486	-17.933	56.763	49.704	1.00	21.94	A
ATOM	3754	CB	ALA	A	486	-17.549	56.514	51.152	1.00	18.39	A
ATOM	3755	C	ALA	A	486	-16.859	57.582	49.013	1.00	22.52	A
ATOM	3756	O	ALA	A	486	-16.998	58.796	48.835	1.00	21.92	A
ATOM	3757	N	SER	A	487	-15.783	56.905	48.632	1.00	22.85	A
ATOM	3758	CA	SER	A	487	-14.683	57.554	47.948	1.00	24.36	A
ATOM	3759	CB	SER	A	487	-13.653	56.494	47.558	1.00	25.34	A
ATOM	3760	OG	SER	A	487	-12.540	57.065	46.904	1.00	30.22	A
ATOM	3761	C	SER	A	487	-15.272	58.237	46.703	1.00	25.45	A
ATOM	3762	O	SER	A	487	-15.149	59.453	46.508	1.00	24.72	A
ATOM	3763	N	CYS	A	488	-15.941	57.439	45.881	1.00	24.37	A
ATOM	3764	CA	CYS	A	488	-16.565	57.931	44.678	1.00	24.34	A
ATOM	3765	CB	CYS	A	488	-17.441	56.836	44.091	1.00	24.77	A
ATOM	3766	SG	CYS	A	488	-18.360	57.331	42.625	1.00	32.18	A
ATOM	3767	C	CYS	A	488	-17.404	59.190	44.923	1.00	25.63	A
ATOM	3768	O	CYS	A	488	-17.297	60.176	44.183	1.00	26.67	A
ATOM	3769	N	LEU	A	489	-18.234	59.160	45.963	1.00	25.01	A
ATOM	3770	CA	LEU	A	489	-19.099	60.292	46.279	1.00	24.22	A
ATOM	3771	CB	LEU	A	489	-20.001	59.949	47.467	1.00	22.92	A
ATOM	3772	CG	LEU	A	489	-20.909	58.734	47.256	1.00	24.37	A
ATOM	3773	CD1	LEU	A	489	-21.954	58.692	48.364	1.00	23.91	A
ATOM	3774	CD2	LEU	A	489	-21.600	58.805	45.888	1.00	22.93	A
ATOM	3775	C	LEU	A	489	-18.321	61.575	46.550	1.00	25.06	A
ATOM	3776	O	LEU	A	489	-18.654	62.632	46.016	1.00	23.97	A
ATOM	3777	N	ARG	A	490	-17.282	61.480	47.376	1.00	25.94	A
ATOM	3778	CA	ARG	A	490	-16.459	62.638	47.689	1.00	26.04	A
ATOM	3779	CB	ARG	A	490	-15.306	62.247	48.608	1.00	26.57	A
ATOM	3780	CG	ARG	A	490	-15.709	61.851	50.008	1.00	28.76	A
ATOM	3781	CD	ARG	A	490	-14.470	61.671	50.879	1.00	31.46	A
ATOM	3782	NE	ARG	A	490	-13.895	60.325	50.826	1.00	34.61	A
ATOM	3783	CZ	ARG	A	490	-14.326	59.300	51.561	1.00	36.24	A
ATOM	3784	NH1	ARG	A	490	-15.340	59.468	52.406	1.00	37.11	A
ATOM	3785	NH2	ARG	A	490	-13.740	58.109	51.461	1.00	35.52	A
ATOM	3786	C	ARG	A	490	-15.887	63.186	46.391	1.00	26.17	A
ATOM	3787	O	ARG	A	490	-15.893	64.390	46.156	1.00	27.43	A
ATOM	3788	N	LYS	A	491	-15.395	62.285	45.547	1.00	25.62	A
ATOM	3789	CA	LYS	A	491	-14.813	62.664	44.268	1.00	23.49	A
ATOM	3790	CB	LYS	A	491	-14.360	61.414	43.504	1.00	23.27	A
ATOM	3791	CG	LYS	A	491	-13.789	61.715	42.127	1.00	25.50	A
ATOM	3792	CD	LYS	A	491	-13.307	60.465	41.424	1.00	27.41	A
ATOM	3793	CE	LYS	A	491	-14.451	59.515	41.100	1.00	30.74	A
ATOM	3794	NZ	LYS	A	491	-13.975	58.279	40.402	1.00	33.48	A
ATOM	3795	C	LYS	A	491	-15.782	63.478	43.413	1.00	22.36	A
ATOM	3796	O	LYS	A	491	-15.481	64.607	43.038	1.00	23.25	A
ATOM	3797	N	LEU	A	492	-16.944	62.910	43.111	1.00	20.85	A
ATOM	3798	CA	LEU	A	492	-17.940	63.589	42.283	1.00	20.14	A
ATOM	3799	CB	LEU	A	492	-19.069	62.615	41.898	1.00	20.53	A
ATOM	3800	CG	LEU	A	492	-19.030	61.724	40.651	1.00	19.26	A
ATOM	3801	CD1	LEU	A	492	-17.682	61.759	39.967	1.00	18.53	A
ATOM	3802	CD2	LEU	A	492	-19.392	60.323	41.069	1.00	18.42	A
ATOM	3803	C	LEU	A	492	-18.563	64.822	42.933	1.00	19.51	A
ATOM	3804	O	LEU	A	492	-19.013	65.736	42.234	1.00	18.71	A
ATOM	3805	N	GLY	A	493	-18.605	64.854	44.262	1.00	19.33	A
ATOM	3806	CA	GLY	A	493	-19.225	65.987	44.937	1.00	20.45	A
ATOM	3807	C	GLY	A	493	-20.689	65.679	45.222	1.00	20.76	A
ATOM	3808	O	GLY	A	493	-21.563	66.546	45.161	1.00	20.31	A
ATOM	3809	N	VAL	A	494	-20.948	64.413	45.521	1.00	21.56	A
ATOM	3810	CA	VAL	A	494	-22.287	63.921	45.816	1.00	22.34	A
ATOM	3811	CB	VAL	A	494	-22.473	62.512	45.185	1.00	23.71	A
ATOM	3812	CG1	VAL	A	494	-23.821	61.910	45.582	1.00	24.89	A
ATOM	3813	CG2	VAL	A	494	-22.343	62.609	43.666	1.00	22.05	A
ATOM	3814	C	VAL	A	494	-22.439	63.838	47.337	1.00	23.54	A
ATOM	3815	O	VAL	A	494	-21.549	63.340	48.031	1.00	24.43	A
ATOM	3816	N	PRO	A	495	-23.562	64.333	47.879	1.00	23.40	A
ATOM	3817	CD	PRO	A	495	-24.711	64.959	47.198	1.00	24.85	A
ATOM	3818	CA	PRO	A	495	-23.766	64.282	49.334	1.00	22.80	A
ATOM	3819	CB	PRO	A	495	-25.230	64.683	49.490	1.00	23.01	A
ATOM	3820	CG	PRO	A	495	-25.436	65.648	48.339	1.00	23.82	A
ATOM	3821	C	PRO	A	495	-23.468	62.901	49.935	1.00	22.55	A
ATOM	3822	O	PRO	A	495	-23.687	61.866	49.304	1.00	20.78	A

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ATOM   3823  N   PRO A 496     -22.960  62.870  51.172  1.00 22.25      A
ATOM   3824  CD  PRO A 496     -22.709  63.986  52.098  1.00 22.02      A
ATOM   3825  CA  PRO A 496     -22.649  61.589  51.808  1.00 21.81      A
ATOM   3826  CB  PRO A 496     -21.974  62.014  53.113  1.00 22.08      A
ATOM   3827  CG  PRO A 496     -22.670  63.281  53.444  1.00 21.92      A
ATOM   3828  C   PRO A 496     -23.886  60.728  52.031  1.00 21.45      A
ATOM   3829  O   PRO A 496     -25.009  61.243  52.106  1.00 22.50      A
ATOM   3830  N   LEU A 497     -23.671  59.419  52.140  1.00 20.79      A
ATOM   3831  CA  LEU A 497     -24.757  58.469  52.350  1.00 18.34      A
ATOM   3832  CB  LEU A 497     -24.188  57.078  52.617  1.00 16.88      A
ATOM   3833  CG  LEU A 497     -23.543  56.395  51.402  1.00 19.18      A
ATOM   3834  CD1 LEU A 497     -23.012  55.027  51.803  1.00 14.11      A
ATOM   3835  CD2 LEU A 497     -24.566  56.269  50.256  1.00 16.97      A
ATOM   3836  C   LEU A 497     -25.729  58.858  53.456  1.00 17.83      A
ATOM   3837  O   LEU A 497     -26.925  58.610  53.333  1.00 18.37      A
ATOM   3838  N   ARG A 498     -25.240  59.464  54.533  1.00 18.31      A
ATOM   3839  CA  ARG A 498     -26.155  59.868  55.597  1.00 20.47      A
ATOM   3840  CB  ARG A 498     -25.402  60.474  56.795  1.00 19.81      A
ATOM   3841  CG  ARG A 498     -24.557  61.696  56.490  1.00 21.79      A
ATOM   3842  CD  ARG A 498     -23.735  62.122  57.706  1.00 20.54      A
ATOM   3843  NE  ARG A 498     -22.672  63.042  57.325  1.00 22.15      A
ATOM   3844  CZ  ARG A 498     -22.872  64.298  56.927  1.00 25.53      A
ATOM   3845  NH1 ARG A 498     -24.104  64.797  56.869  1.00 26.24      A
ATOM   3846  NH2 ARG A 498     -21.841  65.051  56.553  1.00 24.15      A
ATOM   3847  C   ARG A 498     -27.194  60.858  55.060  1.00 21.97      A
ATOM   3848  O   ARG A 498     -28.352  60.827  55.476  1.00 23.51      A
ATOM   3849  N   THR A 499     -26.801  61.721  54.127  1.00 21.19      A
ATOM   3850  CA  THR A 499     -27.761  62.660  53.583  1.00 21.42      A
ATOM   3851  CB  THR A 499     -27.088  63.717  52.675  1.00 22.36      A
ATOM   3852  OG1 THR A 499     -26.299  64.605  53.476  1.00 21.88      A
ATOM   3853  CG2 THR A 499     -28.147  64.548  51.932  1.00 22.80      A
ATOM   3854  C   THR A 499     -28.814  61.891  52.790  1.00 22.70      A
ATOM   3855  O   THR A 499     -30.002  62.229  52.828  1.00 22.17      A
ATOM   3856  N   TRP A 500     -28.389  60.848  52.081  1.00 23.24      A
ATOM   3857  CA  TRP A 500     -29.336  60.059  51.302  1.00 23.93      A
ATOM   3858  CB  TRP A 500     -28.597  59.100  50.373  1.00 22.55      A
ATOM   3859  CG  TRP A 500     -27.851  59.812  49.299  1.00 23.04      A
ATOM   3860  CD2 TRP A 500     -28.414  60.528  48.189  1.00 23.75      A
ATOM   3861  CE2 TRP A 500     -27.341  61.111  47.482  1.00 23.40      A
ATOM   3862  CE3 TRP A 500     -29.718  60.734  47.727  1.00 22.26      A
ATOM   3863  CD1 TRP A 500     -26.508  59.978  49.217  1.00 23.06      A
ATOM   3864  NE1 TRP A 500     -26.190  60.759  48.130  1.00 24.06      A
ATOM   3865  CZ2 TRP A 500     -27.529  61.888  46.339  1.00 23.00      A
ATOM   3866  CZ3 TRP A 500     -29.904  61.503  46.593  1.00 23.06      A
ATOM   3867  CH2 TRP A 500     -28.815  62.073  45.911  1.00 23.15      A
ATOM   3868  C   TRP A 500     -30.316  59.290  52.187  1.00 24.66      A
ATOM   3869  O   TRP A 500     -31.464  59.070  51.806  1.00 25.04      A
ATOM   3870  N   ARG A 501     -29.864  58.882  53.366  1.00 25.13      A
ATOM   3871  CA  ARG A 501     -30.729  58.163  54.291  1.00 26.91      A
ATOM   3872  CB  ARG A 501     -29.921  57.758  55.530  1.00 27.96      A
ATOM   3873  CG  ARG A 501     -30.639  56.902  56.566  1.00 28.00      A
ATOM   3874  CD  ARG A 501     -29.612  56.350  57.553  1.00 32.18      A
ATOM   3875  NE  ARG A 501     -28.816  57.416  58.180  1.00 38.15      A
ATOM   3876  CZ  ARG A 501     -27.484  57.408  58.307  1.00 39.14      A
ATOM   3877  NH1 ARG A 501     -26.761  56.391  57.852  1.00 39.70      A
ATOM   3878  NH2 ARG A 501     -26.862  58.427  58.884  1.00 40.01      A
ATOM   3879  C   ARG A 501     -31.848  59.132  54.664  1.00 27.32      A
ATOM   3880  O   ARG A 501     -33.032  58.824  54.533  1.00 25.53      A
ATOM   3881  N   HIS A 502     -31.451  60.319  55.110  1.00 28.30      A
ATOM   3882  CA  HIS A 502     -32.398  61.347  55.503  1.00 29.48      A
ATOM   3883  CB  HIS A 502     -31.670  62.654  55.833  1.00 33.16      A
ATOM   3884  CG  HIS A 502     -30.661  62.534  56.933  1.00 36.18      A
ATOM   3885  CD2 HIS A 502     -30.404  61.530  57.808  1.00 37.97      A
ATOM   3886  ND1 HIS A 502     -29.770  63.543  57.233  1.00 36.37      A
ATOM   3887  CE1 HIS A 502     -29.006  63.165  58.245  1.00 39.57      A
ATOM   3888  NE2 HIS A 502     -29.371  61.948  58.614  1.00 38.49      A
ATOM   3889  C   HIS A 502     -33.372  61.601  54.364  1.00 29.29      A
ATOM   3890  O   HIS A 502     -34.582  61.594  54.562  1.00 30.96      A
ATOM   3891  N   ARG A 503     -32.840  61.830  53.168  1.00 28.38      A
ATOM   3892  CA  ARG A 503     -33.676  62.101  52.011  1.00 27.01      A
ATOM   3893  CB  ARG A 503     -32.805  62.376  50.790  1.00 26.10      A
ATOM   3894  CG  ARG A 503     -32.163  63.751  50.768  1.00 26.68      A
ATOM   3895  CD  ARG A 503     -31.189  63.851  49.617  1.00 28.31      A
ATOM   3896  NE  ARG A 503     -30.596  65.172  49.456  1.00 26.56      A
ATOM   3897  CZ  ARG A 503     -29.624  65.431  48.585  1.00 27.86      A
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ATOM	3899	NH2	ARG	A	503	-29.129	66.657	48.465	1.00	25.91	A
ATOM	3900	C	ARG	A	503	-34.628	60.959	51.704	1.00	27.57	A
ATOM	3901	O	ARG	A	503	-35.794	61.185	51.385	1.00	26.56	A
ATOM	3902	N	ALA	A	504	-34.123	59.732	51.792	1.00	28.30	A
ATOM	3903	CA	ALA	A	504	-34.930	58.552	51.512	1.00	28.79	A
ATOM	3904	CB	ALA	A	504	-34.079	57.313	51.601	1.00	28.43	A
ATOM	3905	C	ALA	A	504	-36.084	58.459	52.493	1.00	30.66	A
ATOM	3906	O	ALA	A	504	-37.181	58.015	52.135	1.00	28.67	A
ATOM	3907	N	ARG	A	505	-35.832	58.864	53.737	1.00	32.47	A
ATOM	3908	CA	ARG	A	505	-36.874	58.838	54.747	1.00	33.57	A
ATOM	3909	CB	ARG	A	505	-36.346	59.366	56.078	1.00	35.42	A
ATOM	3910	CG	ARG	A	505	-35.686	58.306	56.946	1.00	40.73	A
ATOM	3911	CD	ARG	A	505	-35.321	58.857	58.318	1.00	43.69	A
ATOM	3912	NE	ARG	A	505	-35.233	57.808	59.335	1.00	47.25	A
ATOM	3913	CZ	ARG	A	505	-36.284	57.190	59.872	1.00	47.98	A
ATOM	3914	NH1	ARG	A	505	-37.513	57.516	59.488	1.00	47.32	A
ATOM	3915	NH2	ARG	A	505	-36.104	56.247	60.795	1.00	48.28	A
ATOM	3916	C	ARG	A	505	-38.046	59.692	54.274	1.00	33.81	A
ATOM	3917	O	ARG	A	505	-39.202	59.252	54.293	1.00	33.85	A
ATOM	3918	N	SER	A	506	-37.747	60.907	53.830	1.00	32.38	A
ATOM	3919	CA	SER	A	506	-38.793	61.798	53.364	1.00	32.83	A
ATOM	3920	CB	SER	A	506	-38.206	63.163	53.027	1.00	32.98	A
ATOM	3921	OG	SER	A	506	-39.201	64.011	52.485	1.00	33.53	A
ATOM	3922	C	SER	A	506	-39.534	61.229	52.153	1.00	33.88	A
ATOM	3923	O	SER	A	506	-40.758	61.066	52.188	1.00	33.83	A
ATOM	3924	N	VAL	A	507	-38.798	60.925	51.085	1.00	33.85	A
ATOM	3925	CA	VAL	A	507	-39.407	60.373	49.877	1.00	33.04	A
ATOM	3926	CB	VAL	A	507	-38.349	59.944	48.854	1.00	30.86	A
ATOM	3927	CG1	VAL	A	507	-39.011	59.306	47.682	1.00	30.04	A
ATOM	3928	CG2	VAL	A	507	-37.564	61.144	48.390	1.00	34.26	A
ATOM	3929	C	VAL	A	507	-40.291	59.169	50.191	1.00	33.56	A
ATOM	3930	O	VAL	A	507	-41.352	59.012	49.598	1.00	34.92	A
ATOM	3931	N	ARG	A	508	-39.857	58.325	51.122	1.00	34.29	A
ATOM	3932	CA	ARG	A	508	-40.632	57.147	51.498	1.00	35.43	A
ATOM	3933	CB	ARG	A	508	-39.860	56.294	52.512	1.00	35.04	A
ATOM	3934	CG	ARG	A	508	-40.648	55.116	53.058	1.00	33.84	A
ATOM	3935	CD	ARG	A	508	-39.877	54.413	54.161	1.00	36.74	A
ATOM	3936	NE	ARG	A	508	-40.769	53.800	55.143	1.00	40.77	A
ATOM	3937	CZ	ARG	A	508	-41.112	52.516	55.164	1.00	41.43	A
ATOM	3938	NH1	ARG	A	508	-40.636	51.666	54.259	1.00	42.15	A
ATOM	3939	NH2	ARG	A	508	-41.951	52.088	56.089	1.00	40.30	A
ATOM	3940	C	ARG	A	508	-41.976	57.562	52.094	1.00	35.46	A
ATOM	3941	O	ARG	A	508	-43.035	57.143	51.624	1.00	35.30	A
ATOM	3942	N	ALA	A	509	-41.919	58.387	53.133	1.00	35.84	A
ATOM	3943	CA	ALA	A	509	-43.117	58.865	53.798	1.00	35.15	A
ATOM	3944	CB	ALA	A	509	-42.773	60.025	54.704	1.00	34.68	A
ATOM	3945	C	ALA	A	509	-44.137	59.294	52.760	1.00	35.79	A
ATOM	3946	O	ALA	A	509	-45.273	58.837	52.790	1.00	35.95	A
ATOM	3947	N	LYS	A	510	-43.730	60.161	51.834	1.00	36.70	A
ATOM	3948	CA	LYS	A	510	-44.634	60.632	50.785	1.00	37.71	A
ATOM	3949	CB	LYS	A	510	-43.923	61.595	49.829	1.00	37.23	A
ATOM	3950	CG	LYS	A	510	-43.292	62.811	50.468	1.00	37.36	A
ATOM	3951	CD	LYS	A	510	-42.951	63.844	49.390	1.00	38.11	A
ATOM	3952	CE	LYS	A	510	-42.225	65.058	49.950	1.00	36.17	A
ATOM	3953	NZ	LYS	A	510	-40.839	64.709	50.375	1.00	38.06	A
ATOM	3954	C	LYS	A	510	-45.194	59.466	49.968	1.00	39.03	A
ATOM	3955	O	LYS	A	510	-46.406	59.358	49.787	1.00	39.45	A
ATOM	3956	N	LEU	A	511	-44.319	58.598	49.466	1.00	39.00	A
ATOM	3957	CA	LEU	A	511	-44.777	57.463	48.676	1.00	40.11	A
ATOM	3958	CB	LEU	A	511	-43.618	56.509	48.392	1.00	38.88	A
ATOM	3959	CG	LEU	A	511	-42.544	57.104	47.477	1.00	38.93	A
ATOM	3960	CD1	LEU	A	511	-41.399	56.105	47.317	1.00	37.08	A
ATOM	3961	CD2	LEU	A	511	-43.158	57.462	46.125	1.00	37.96	A
ATOM	3962	C	LEU	A	511	-45.921	56.715	49.363	1.00	40.79	A
ATOM	3963	O	LEU	A	511	-47.007	56.583	48.800	1.00	40.58	A
ATOM	3964	N	LEU	A	512	-45.678	56.234	50.578	1.00	41.45	A
ATOM	3965	CA	LEU	A	512	-46.699	55.518	51.334	1.00	42.29	A
ATOM	3966	CB	LEU	A	512	-46.186	55.225	52.743	1.00	40.36	A
ATOM	3967	CG	LEU	A	512	-44.981	54.277	52.799	1.00	41.16	A
ATOM	3968	CD1	LEU	A	512	-44.248	54.403	54.128	1.00	40.43	A
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ATOM	3970	C	LEU	A	512	-48.001	56.327	51.411	1.00	44.59	A
ATOM	3971	O	LEU	A	512	-49.095	55.787	51.216	1.00	45.07	A
ATOM	3972	N	SER	A	513	-47.878	57.626	51.685	1.00	45.48	A

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ATOM   3973  CA  SER A 513     -49.041  58.509  51.797  1.00 45.33      A
ATOM   3974  CB  SER A 513     -48.604  59.975  51.869  1.00 46.89      A
ATOM   3975  OG  SER A 513     -47.847  60.236  53.040  1.00 50.88      A
ATOM   3976  C   SER A 513     -49.989  58.356  50.627  1.00 44.78      A
ATOM   3977  O   SER A 513     -51.202  58.481  50.784  1.00 45.34      A
ATOM   3978  N   GLN A 514     -49.423  58.087  49.455  1.00 43.48      A
ATOM   3979  CA  GLN A 514     -50.198  57.939  48.235  1.00 42.15      A
ATOM   3980  CB  GLN A 514     -49.301  58.201  47.030  1.00 40.21      A
ATOM   3981  CG  GLN A 514     -48.857  59.639  46.937  1.00 41.21      A
ATOM   3982  CD  GLN A 514     -48.334  59.995  45.567  1.00 41.61      A
ATOM   3983  OE1 GLN A 514     -48.636  59.325  44.580  1.00 42.99      A
ATOM   3984  NE2 GLN A 514     -47.564  61.067  45.493  1.00 41.91      A
ATOM   3985  C   GLN A 514     -50.913  56.609  48.050  1.00 42.61      A
ATOM   3986  O   GLN A 514     -51.807  56.501  47.207  1.00 41.96      A
ATOM   3987  N   GLY A 515     -50.533  55.602  48.830  1.00 42.95      A
ATOM   3988  CA  GLY A 515     -51.157  54.299  48.685  1.00 44.38      A
ATOM   3989  C   GLY A 515     -50.879  53.710  47.311  1.00 45.63      A
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ATOM   3992  CA  GLY A 516     -51.258  51.916  45.736  1.00 46.59      A
ATOM   3993  C   GLY A 516     -49.835  51.489  45.418  1.00 46.92      A
ATOM   3994  O   GLY A 516     -49.018  51.260  46.315  1.00 46.80      A
ATOM   3995  N   ARG A 517     -49.544  51.392  44.121  1.00 46.70      A
ATOM   3996  CA  ARG A 517     -48.232  50.973  43.630  1.00 46.11      A
ATOM   3997  CB  ARG A 517     -48.162  51.136  42.107  1.00 45.46      A
ATOM   3998  CG  ARG A 517     -49.211  50.326  41.355  1.00 44.66      A
ATOM   3999  CD  ARG A 517     -48.729  49.918  39.966  1.00 44.39      A
ATOM   4000  NE  ARG A 517     -48.661  51.018  39.008  1.00 42.68      A
ATOM   4001  CZ  ARG A 517     -48.195  50.882  37.769  1.00 43.84      A
ATOM   4002  NH1 ARG A 517     -47.762  49.696  37.364  1.00 44.27      A
ATOM   4003  NH2 ARG A 517     -48.159  51.918  36.936  1.00 42.84      A
ATOM   4004  C   ARG A 517     -47.084  51.737  44.281  1.00 46.17      A
ATOM   4005  O   ARG A 517     -46.012  51.174  44.543  1.00 45.05      A
ATOM   4006  N   ALA A 518     -47.320  53.023  44.527  1.00 46.14      A
ATOM   4007  CA  ALA A 518     -46.335  53.889  45.148  1.00 45.23      A
ATOM   4008  CB  ALA A 518     -46.811  55.330  45.097  1.00 44.45      A
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ATOM   4010  O   ALA A 518     -44.969  53.282  47.027  1.00 45.58      A
ATOM   4011  N   ALA A 519     -47.197  53.281  47.334  1.00 44.58      A
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ATOM   4015  O   ALA A 519     -45.595  51.381  49.890  1.00 45.11      A
ATOM   4016  N   THR A 520     -46.151  50.860  47.765  1.00 43.08      A
ATOM   4017  CA  THR A 520     -45.348  49.646  47.725  1.00 41.22      A
ATOM   4018  CB  THR A 520     -45.795  48.741  46.571  1.00 42.62      A
ATOM   4019  OG1 THR A 520     -47.214  48.857  46.411  1.00 43.27      A
ATOM   4020  CG2 THR A 520     -45.436  47.275  46.854  1.00 41.75      A
ATOM   4021  C   THR A 520     -43.890  50.034  47.513  1.00 40.61      A
ATOM   4022  O   THR A 520     -42.997  49.548  48.213  1.00 40.23      A
ATOM   4023  N   CYS A 521     -43.665  50.912  46.534  1.00 38.71      A
ATOM   4024  CA  CYS A 521     -42.330  51.398  46.215  1.00 36.03      A
ATOM   4025  CB  CYS A 521     -42.406  52.567  45.234  1.00 34.45      A
ATOM   4026  SG  CYS A 521     -42.739  52.061  43.548  1.00 33.92      A
ATOM   4027  C   CYS A 521     -41.660  51.859  47.490  1.00 36.02      A
ATOM   4028  O   CYS A 521     -40.484  51.586  47.726  1.00 36.89      A
ATOM   4029  N   GLY A 522     -42.422  52.557  48.319  1.00 34.64      A
ATOM   4030  CA  GLY A 522     -41.871  53.036  49.563  1.00 35.23      A
ATOM   4031  C   GLY A 522     -41.619  51.903  50.533  1.00 35.77      A
ATOM   4032  O   GLY A 522     -40.606  51.879  51.229  1.00 36.44      A
ATOM   4033  N   ARG A 523     -42.532  50.943  50.569  1.00 36.31      A
ATOM   4034  CA  ARG A 523     -42.405  49.831  51.496  1.00 37.33      A
ATOM   4035  CB  ARG A 523     -43.708  49.016  51.505  1.00 39.50      A
ATOM   4036  CG  ARG A 523     -43.942  48.215  52.787  1.00 44.11      A
ATOM   4037  CD  ARG A 523     -45.286  47.475  52.773  1.00 47.87      A
ATOM   4038  NE  ARG A 523     -46.419  48.343  52.419  1.00 52.16      A
ATOM   4039  CZ  ARG A 523     -46.938  49.298  53.195  1.00 53.48      A
ATOM   4040  NH1 ARG A 523     -46.436  49.538  54.402  1.00 54.31      A
ATOM   4041  NH2 ARG A 523     -47.976  50.013  52.763  1.00 52.51      A
ATOM   4042  C   ARG A 523     -41.210  48.935  51.183  1.00 36.32      A
ATOM   4043  O   ARG A 523     -40.420  48.611  52.074  1.00 35.20      A
ATOM   4044  N   TYR A 524     -41.067  48.558  49.915  1.00 35.72      A
ATOM   4045  CA  TYR A 524     -39.978  47.680  49.499  1.00 36.02      A
ATOM   4046  CB  TYR A 524     -40.431  46.777  48.349  1.00 37.52      A
ATOM   4047  CG  TYR A 524     -41.513  45.796  48.726  1.00 38.77      A
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ATOM	4048	CD1	TYR	A	524	-42.841	46.206	48.847	1.00	38.99	A
ATOM	4049	CE1	TYR	A	524	-43.839	45.319	49.220	1.00	39.73	A
ATOM	4050	CD2	TYR	A	524	-41.207	44.465	48.987	1.00	39.30	A
ATOM	4051	CE2	TYR	A	524	-42.199	43.562	49.364	1.00	41.79	A
ATOM	4052	CZ	TYR	A	524	-43.518	43.993	49.480	1.00	41.46	A
ATOM	4053	OH	TYR	A	524	-44.511	43.105	49.854	1.00	41.16	A
ATOM	4054	C	TYR	A	524	-38.666	48.358	49.105	1.00	35.77	A
ATOM	4055	O	TYR	A	524	-37.601	47.939	49.557	1.00	37.50	A
ATOM	4056	N	LEU	A	525	-38.723	49.391	48.269	1.00	33.40	A
ATOM	4057	CA	LEU	A	525	-37.500	50.060	47.849	1.00	31.34	A
ATOM	4058	CB	LEU	A	525	-37.773	51.060	46.733	1.00	30.38	A
ATOM	4059	CG	LEU	A	525	-38.398	50.501	45.458	1.00	31.32	A
ATOM	4060	CD1	LEU	A	525	-38.564	51.622	44.437	1.00	31.40	A
ATOM	4061	CD2	LEU	A	525	-37.530	49.386	44.913	1.00	30.77	A
ATOM	4062	C	LEU	A	525	-36.818	50.789	48.979	1.00	31.84	A
ATOM	4063	O	LEU	A	525	-35.593	50.845	49.030	1.00	33.41	A
ATOM	4064	N	PHE	A	526	-37.598	51.335	49.902	1.00	31.67	A
ATOM	4065	CA	PHE	A	526	-37.009	52.103	50.989	1.00	31.69	A
ATOM	4066	CB	PHE	A	526	-37.594	53.511	50.951	1.00	27.91	A
ATOM	4067	CG	PHE	A	526	-37.187	54.277	49.735	1.00	27.23	A
ATOM	4068	CD1	PHE	A	526	-35.902	54.800	49.627	1.00	26.46	A
ATOM	4069	CD2	PHE	A	526	-38.065	54.445	48.672	1.00	26.20	A
ATOM	4070	CE1	PHE	A	526	-35.507	55.479	48.479	1.00	24.27	A
ATOM	4071	CE2	PHE	A	526	-37.670	55.123	47.522	1.00	22.88	A
ATOM	4072	CZ	PHE	A	526	-36.398	55.636	47.427	1.00	23.56	A
ATOM	4073	C	PHE	A	526	-37.058	51.540	52.403	1.00	31.95	A
ATOM	4074	O	PHE	A	526	-36.822	52.260	53.370	1.00	32.67	A
ATOM	4075	N	ASN	A	527	-37.331	50.251	52.532	1.00	33.14	A
ATOM	4076	CA	ASN	A	527	-37.386	49.656	53.852	1.00	34.10	A
ATOM	4077	CB	ASN	A	527	-37.799	48.192	53.771	1.00	34.06	A
ATOM	4078	CG	ASN	A	527	-38.822	47.834	54.819	1.00	35.63	A
ATOM	4079	OD1	ASN	A	527	-39.871	48.482	54.920	1.00	37.58	A
ATOM	4080	ND2	ASN	A	527	-38.531	46.809	55.611	1.00	33.88	A
ATOM	4081	C	ASN	A	527	-36.034	49.770	54.532	1.00	34.74	A
ATOM	4082	O	ASN	A	527	-35.899	49.496	55.716	1.00	35.93	A
ATOM	4083	N	TRP	A	528	-35.024	50.189	53.788	1.00	36.26	A
ATOM	4084	CA	TRP	A	528	-33.699	50.320	54.373	1.00	37.10	A
ATOM	4085	CB	TRP	A	528	-32.628	50.125	53.299	1.00	33.79	A
ATOM	4086	CG	TRP	A	528	-32.740	51.113	52.192	1.00	31.57	A
ATOM	4087	CD2	TRP	A	528	-32.277	52.468	52.212	1.00	30.18	A
ATOM	4088	CE2	TRP	A	528	-32.636	53.050	50.980	1.00	29.40	A
ATOM	4089	CE3	TRP	A	528	-31.594	53.247	53.155	1.00	29.69	A
ATOM	4090	CD1	TRP	A	528	-33.343	50.931	50.984	1.00	30.84	A
ATOM	4091	NE1	TRP	A	528	-33.286	52.092	50.247	1.00	30.68	A
ATOM	4092	CZ2	TRP	A	528	-32.336	54.371	50.666	1.00	28.49	A
ATOM	4093	CZ3	TRP	A	528	-31.296	54.559	52.843	1.00	29.73	A
ATOM	4094	CH2	TRP	A	528	-31.667	55.108	51.606	1.00	29.18	A
ATOM	4095	C	TRP	A	528	-33.538	51.688	55.034	1.00	39.01	A
ATOM	4096	O	TRP	A	528	-32.604	51.906	55.807	1.00	38.97	A
ATOM	4097	N	ALA	A	529	-34.452	52.606	54.725	1.00	41.29	A
ATOM	4098	CA	ALA	A	529	-34.406	53.953	55.289	1.00	44.61	A
ATOM	4099	CB	ALA	A	529	-35.250	54.913	54.436	1.00	42.82	A
ATOM	4100	C	ALA	A	529	-34.882	53.986	56.748	1.00	46.97	A
ATOM	4101	O	ALA	A	529	-34.431	54.828	57.532	1.00	47.82	A
ATOM	4102	N	VAL	A	530	-35.788	53.073	57.107	1.00	48.67	A
ATOM	4103	CA	VAL	A	530	-36.319	53.002	58.470	1.00	50.17	A
ATOM	4104	CB	VAL	A	530	-37.815	52.635	58.471	1.00	49.77	A
ATOM	4105	CG1	VAL	A	530	-38.576	53.537	57.509	1.00	50.57	A
ATOM	4106	CG2	VAL	A	530	-37.994	51.172	58.086	1.00	48.98	A
ATOM	4107	C	VAL	A	530	-35.588	51.947	59.298	1.00	52.04	A
ATOM	4108	O	VAL	A	530	-34.947	51.051	58.752	1.00	52.39	A
ATOM	4109	N	ARG	A	531	-35.681	52.054	60.620	1.00	54.57	A
ATOM	4110	CA	ARG	A	531	-35.039	51.072	61.491	1.00	56.57	A
ATOM	4111	CB	ARG	A	531	-34.296	51.758	62.642	1.00	58.47	A
ATOM	4112	CG	ARG	A	531	-32.964	52.352	62.186	1.00	62.65	A
ATOM	4113	CD	ARG	A	531	-32.137	51.287	61.452	1.00	65.09	A
ATOM	4114	NE	ARG	A	531	-31.147	51.850	60.536	1.00	68.46	A
ATOM	4115	CZ	ARG	A	531	-30.455	51.126	59.657	1.00	70.15	A
ATOM	4116	NH1	ARG	A	531	-30.653	49.814	59.586	1.00	70.89	A
ATOM	4117	NH2	ARG	A	531	-29.573	51.710	58.847	1.00	70.00	A
ATOM	4118	C	ARG	A	531	-36.079	50.093	62.013	1.00	56.78	A
ATOM	4119	O	ARG	A	531	-35.777	48.926	62.270	1.00	57.23	A
ATOM	4120	N	THR	A	532	-37.306	50.577	62.169	1.00	56.01	A
ATOM	4121	CA	THR	A	532	-38.403	49.724	62.593	1.00	56.08	A
ATOM	4122	CB	THR	A	532	-39.479	50.513	63.374	1.00	55.85	A

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ATOM   4123  OG1 THR A 532     -38.969  50.849  64.670  1.00 54.15      A
ATOM   4124  CG2 THR A 532     -40.738  49.684  63.540  1.00 54.51      A
ATOM   4125  C   THR A 532     -38.955  49.211  61.268  1.00 56.07      A
ATOM   4126  O   THR A 532     -40.033  49.597  60.815  1.00 55.56      A
ATOM   4127  N   LYS A 533     -38.170  48.338  60.653  1.00 56.76      A
ATOM   4128  CA  LYS A 533     -38.492  47.760  59.361  1.00 58.77      A
ATOM   4129  CB  LYS A 533     -37.308  46.930  58.867  1.00 58.73      A
ATOM   4130  CG  LYS A 533     -36.010  47.699  58.847  1.00 59.54      A
ATOM   4131  CD  LYS A 533     -35.002  47.052  57.923  1.00 61.15      A
ATOM   4132  CE  LYS A 533     -33.764  47.928  57.775  1.00 61.75      A
ATOM   4133  NZ  LYS A 533     -32.844  47.404  56.730  1.00 61.99      A
ATOM   4134  C   LYS A 533     -39.752  46.913  59.297  1.00 59.67      A
ATOM   4135  O   LYS A 533     -40.181  46.319  60.285  1.00 59.48      A
ATOM   4136  N   LEU A 534     -40.334  46.861  58.105  1.00 60.70      A
ATOM   4137  CA  LEU A 534     -41.530  46.071  57.874  1.00 62.31      A
ATOM   4138  CB  LEU A 534     -42.429  46.758  56.838  1.00 62.22      A
ATOM   4139  CG  LEU A 534     -42.713  48.249  57.068  1.00 62.66      A
ATOM   4140  CD1 LEU A 534     -43.645  48.768  55.973  1.00 60.66      A
ATOM   4141  CD2 LEU A 534     -43.330  48.453  58.455  1.00 61.66      A
ATOM   4142  C   LEU A 534     -41.090  44.703  57.355  1.00 63.29      A
ATOM   4143  O   LEU A 534     -40.025  44.571  56.739  1.00 62.98      A
ATOM   4144  N   LYS A 535     -41.898  43.682  57.622  1.00 63.99      A
ATOM   4145  CA  LYS A 535     -41.583  42.340  57.153  1.00 64.20      A
ATOM   4146  CB  LYS A 535     -42.314  41.281  57.987  1.00 66.23      A
ATOM   4147  CG  LYS A 535     -42.130  41.432  59.496  1.00 68.40      A
ATOM   4148  CD  LYS A 535     -40.674  41.292  59.914  1.00 69.85      A
ATOM   4149  CE  LYS A 535     -40.496  41.638  61.388  1.00 71.38      A
ATOM   4150  NZ  LYS A 535     -39.073  41.514  61.847  1.00 72.48      A
ATOM   4151  C   LYS A 535     -42.061  42.298  55.713  1.00 62.78      A
ATOM   4152  O   LYS A 535     -43.260  42.342  55.439  1.00 62.35      A
ATOM   4153  N   LEU A 536     -41.113  42.235  54.790  1.00 61.63      A
ATOM   4154  CA  LEU A 536     -41.456  42.210  53.384  1.00 60.34      A
ATOM   4155  CB  LEU A 536     -40.310  42.821  52.575  1.00 58.57      A
ATOM   4156  CG  LEU A 536     -40.109  44.267  53.041  1.00 56.31      A
ATOM   4157  CD1 LEU A 536     -38.875  44.865  52.438  1.00 56.70      A
ATOM   4158  CD2 LEU A 536     -41.329  45.073  52.670  1.00 55.76      A
ATOM   4159  C   LEU A 536     -41.798  40.801  52.926  1.00 59.61      A
ATOM   4160  O   LEU A 536     -41.012  39.864  53.062  1.00 59.61      A
ATOM   4161  N   THR A 537     -43.002  40.670  52.395  1.00 59.07      A
ATOM   4162  CA  THR A 537     -43.507  39.399  51.928  1.00 59.53      A
ATOM   4163  CB  THR A 537     -44.873  39.105  52.570  1.00 61.22      A
ATOM   4164  OG1 THR A 537     -45.833  40.077  52.121  1.00 60.98      A
ATOM   4165  CG2 THR A 537     -44.765  39.179  54.092  1.00 60.75      A
ATOM   4166  C   THR A 537     -43.686  39.469  50.424  1.00 58.77      A
ATOM   4167  O   THR A 537     -43.921  40.544  49.873  1.00 58.46      A
ATOM   4168  N   PRO A 538     -43.591  38.319  49.742  1.00 58.41      A
ATOM   4169  CD  PRO A 538     -43.410  36.968  50.304  1.00 57.78      A
ATOM   4170  CA  PRO A 538     -43.747  38.265  48.286  1.00 59.28      A
ATOM   4171  CB  PRO A 538     -44.112  36.807  48.042  1.00 57.76      A
ATOM   4172  CG  PRO A 538     -43.264  36.108  49.058  1.00 58.13      A
ATOM   4173  C   PRO A 538     -44.811  39.236  47.773  1.00 60.35      A
ATOM   4174  O   PRO A 538     -45.842  39.443  48.413  1.00 60.85      A
ATOM   4175  N   ILE A 539     -44.547  39.839  46.622  1.00 61.23      A
ATOM   4176  CA  ILE A 539     -45.487  40.785  46.033  1.00 63.48      A
ATOM   4177  CB  ILE A 539     -44.740  41.969  45.389  1.00 62.83      A
ATOM   4178  CG2 ILE A 539     -45.734  42.943  44.781  1.00 61.99      A
ATOM   4179  CG1 ILE A 539     -43.871  42.650  46.447  1.00 62.53      A
ATOM   4180  CD1 ILE A 539     -42.998  43.755  45.921  1.00 63.37      A
ATOM   4181  C   ILE A 539     -46.329  40.079  44.974  1.00 65.74      A
ATOM   4182  O   ILE A 539     -45.813  39.658  43.939  1.00 66.72      A
ATOM   4183  N   PRO A 540     -47.645  39.957  45.213  1.00 67.41      A
ATOM   4184  CD  PRO A 540     -48.362  40.603  46.325  1.00 67.19      A
ATOM   4185  CA  PRO A 540     -48.589  39.296  44.299  1.00 68.70      A
ATOM   4186  CB  PRO A 540     -49.943  39.780  44.800  1.00 68.27      A
ATOM   4187  CG  PRO A 540     -49.710  39.940  46.257  1.00 67.92      A
ATOM   4188  C   PRO A 540     -48.396  39.585  42.807  1.00 70.36      A
ATOM   4189  O   PRO A 540     -47.908  38.738  42.055  1.00 70.15      A
ATOM   4190  N   ALA A 541     -48.786  40.790  42.398  1.00 72.53      A
ATOM   4191  CA  ALA A 541     -48.709  41.233  41.003  1.00 74.81      A
ATOM   4192  CB  ALA A 541     -49.104  42.708  40.925  1.00 74.56      A
ATOM   4193  C   ALA A 541     -47.378  41.013  40.261  1.00 76.33      A
ATOM   4194  O   ALA A 541     -47.287  41.243  39.049  1.00 75.88      A
ATOM   4195  N   ALA A 542     -46.351  40.567  40.977  1.00 77.90      A
ATOM   4196  CA  ALA A 542     -45.044  40.340  40.362  1.00 79.17      A
ATOM   4197  CB  ALA A 542     -43.978  40.149  41.444  1.00 78.56      A
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ATOM	4198	C	ALA	A	542	-45.049	39.142	39.413	1.00	80.10	A
ATOM	4199	O	ALA	A	542	-44.908	39.297	38.196	1.00	80.28	A
ATOM	4200	N	SER	A	543	-45.213	37.950	39.981	1.00	80.47	A
ATOM	4201	CA	SER	A	543	-45.244	36.715	39.202	1.00	80.01	A
ATOM	4202	CB	SER	A	543	-45.597	35.539	40.118	1.00	79.06	A
ATOM	4203	OG	SER	A	543	-46.676	35.872	40.977	1.00	78.66	A
ATOM	4204	C	SER	A	543	-46.229	36.783	38.020	1.00	79.95	A
ATOM	4205	O	SER	A	543	-46.157	35.969	37.094	1.00	80.40	A
ATOM	4206	N	GLN	A	544	-47.136	37.758	38.050	1.00	78.96	A
ATOM	4207	CA	GLN	A	544	-48.124	37.933	36.986	1.00	77.97	A
ATOM	4208	CB	GLN	A	544	-49.334	38.711	37.519	1.00	79.20	A
ATOM	4209	CG	GLN	A	544	-50.319	39.192	36.447	1.00	79.88	A
ATOM	4210	CD	GLN	A	544	-51.357	40.175	36.995	1.00	80.03	A
ATOM	4211	OE1	GLN	A	544	-52.299	40.564	36.292	1.00	78.86	A
ATOM	4212	NE2	GLN	A	544	-51.184	40.582	38.255	1.00	79.80	A
ATOM	4213	C	GLN	A	544	-47.508	38.701	35.823	1.00	76.73	A
ATOM	4214	O	GLN	A	544	-48.095	38.811	34.747	1.00	76.27	A
ATOM	4215	N	LEU	A	545	-46.313	39.227	36.066	1.00	75.78	A
ATOM	4216	CA	LEU	A	545	-45.571	40.021	35.095	1.00	73.38	A
ATOM	4217	CB	LEU	A	545	-44.560	40.903	35.836	1.00	72.88	A
ATOM	4218	CG	LEU	A	545	-44.490	42.400	35.558	1.00	71.69	A
ATOM	4219	CD1	LEU	A	545	-43.294	42.952	36.312	1.00	71.54	A
ATOM	4220	CD2	LEU	A	545	-44.361	42.669	34.065	1.00	71.36	A
ATOM	4221	C	LEU	A	545	-44.841	39.151	34.070	1.00	71.88	A
ATOM	4222	O	LEU	A	545	-44.189	38.162	34.420	1.00	70.97	A
ATOM	4223	N	ASP	A	546	-44.955	39.530	32.803	1.00	69.93	A
ATOM	4224	CA	ASP	A	546	-44.303	38.794	31.733	1.00	67.63	A
ATOM	4225	CB	ASP	A	546	-45.104	38.938	30.436	1.00	66.95	A
ATOM	4226	CG	ASP	A	546	-44.343	38.453	29.229	1.00	66.42	A
ATOM	4227	OD1	ASP	A	546	-43.709	37.382	29.320	1.00	66.41	A
ATOM	4228	OD2	ASP	A	546	-44.388	39.144	28.189	1.00	67.49	A
ATOM	4229	C	ASP	A	546	-42.884	39.321	31.553	1.00	65.88	A
ATOM	4230	O	ASP	A	546	-42.676	40.439	31.084	1.00	65.53	A
ATOM	4231	N	LEU	A	547	-41.908	38.512	31.944	1.00	63.66	A
ATOM	4232	CA	LEU	A	547	-40.519	38.915	31.830	1.00	61.21	A
ATOM	4233	CB	LEU	A	547	-39.859	38.948	33.209	1.00	61.39	A
ATOM	4234	CG	LEU	A	547	-40.158	40.177	34.079	1.00	61.58	A
ATOM	4235	CD1	LEU	A	547	-41.660	40.385	34.234	1.00	60.85	A
ATOM	4236	CD2	LEU	A	547	-39.505	39.986	35.443	1.00	62.60	A
ATOM	4237	C	LEU	A	547	-39.780	37.972	30.918	1.00	59.26	A
ATOM	4238	O	LEU	A	547	-38.556	37.938	30.900	1.00	58.03	A
ATOM	4239	N	SER	A	548	-40.533	37.190	30.162	1.00	58.38	A
ATOM	4240	CA	SER	A	548	-39.911	36.267	29.230	1.00	57.30	A
ATOM	4241	CB	SER	A	548	-40.968	35.417	28.519	1.00	56.68	A
ATOM	4242	OG	SER	A	548	-41.801	36.231	27.708	1.00	55.62	A
ATOM	4243	C	SER	A	548	-39.196	37.146	28.216	1.00	56.21	A
ATOM	4244	O	SER	A	548	-39.591	38.296	27.991	1.00	56.06	A
ATOM	4245	N	GLY	A	549	-38.138	36.614	27.619	1.00	54.56	A
ATOM	4246	CA	GLY	A	549	-37.402	37.370	26.624	1.00	52.84	A
ATOM	4247	C	GLY	A	549	-36.521	38.480	27.163	1.00	51.18	A
ATOM	4248	O	GLY	A	549	-35.780	39.096	26.398	1.00	52.59	A
ATOM	4249	N	TRP	A	550	-36.588	38.737	28.465	1.00	49.04	A
ATOM	4250	CA	TRP	A	550	-35.783	39.791	29.080	1.00	47.25	A
ATOM	4251	CB	TRP	A	550	-36.270	40.065	30.499	1.00	49.31	A
ATOM	4252	CG	TRP	A	550	-37.266	41.166	30.598	1.00	51.24	A
ATOM	4253	CD2	TRP	A	550	-37.184	42.313	31.446	1.00	53.36	A
ATOM	4254	CE2	TRP	A	550	-38.349	43.076	31.228	1.00	54.09	A
ATOM	4255	CE3	TRP	A	550	-36.237	42.770	32.373	1.00	54.70	A
ATOM	4256	CD1	TRP	A	550	-38.440	41.274	29.918	1.00	51.77	A
ATOM	4257	NE1	TRP	A	550	-39.098	42.419	30.289	1.00	52.80	A
ATOM	4258	CZ2	TRP	A	550	-38.599	44.279	31.905	1.00	55.39	A
ATOM	4259	CZ3	TRP	A	550	-36.486	43.967	33.048	1.00	55.79	A
ATOM	4260	CH2	TRP	A	550	-37.659	44.706	32.808	1.00	55.20	A
ATOM	4261	C	TRP	A	550	-34.288	39.481	29.127	1.00	45.60	A
ATOM	4262	O	TRP	A	550	-33.442	40.343	28.845	1.00	44.30	A
ATOM	4263	N	PHE	A	551	-33.960	38.254	29.498	1.00	42.17	A
ATOM	4264	CA	PHE	A	551	-32.566	37.870	29.575	1.00	40.38	A
ATOM	4265	CB	PHE	A	551	-32.173	37.661	31.034	1.00	39.15	A
ATOM	4266	CG	PHE	A	551	-32.298	38.909	31.860	1.00	38.55	A
ATOM	4267	CD1	PHE	A	551	-31.473	40.006	31.612	1.00	37.83	A
ATOM	4268	CD2	PHE	A	551	-33.253	39.004	32.866	1.00	38.27	A
ATOM	4269	CE1	PHE	A	551	-31.596	41.184	32.354	1.00	37.83	A
ATOM	4270	CE2	PHE	A	551	-33.385	40.176	33.616	1.00	38.68	A
ATOM	4271	CZ	PHE	A	551	-32.552	41.269	33.357	1.00	38.09	A
ATOM	4272	C	PHE	A	551	-32.361	36.625	28.750	1.00	39.43	A

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ATOM   4273  O   PHE A 551     -32.075  35.542  29.271  1.00 40.85      A
ATOM   4274  N   VAL A 552     -32.520  36.807  27.444  1.00 36.52      A
ATOM   4275  CA  VAL A 552     -32.380  35.731  26.483  1.00 33.93      A
ATOM   4276  CB  VAL A 552     -33.678  35.582  25.672  1.00 33.90      A
ATOM   4277  CG1 VAL A 552     -33.511  34.546  24.561  1.00 32.08      A
ATOM   4278  CG2 VAL A 552     -34.805  35.212  26.609  1.00 32.75      A
ATOM   4279  C   VAL A 552     -31.216  35.983  25.534  1.00 32.97      A
ATOM   4280  O   VAL A 552     -30.458  35.070  25.217  1.00 32.17      A
ATOM   4281  N   ALA A 553     -31.069  37.222  25.079  1.00 32.16      A
ATOM   4282  CA  ALA A 553     -29.985  37.534  24.155  1.00 32.67      A
ATOM   4283  CB  ALA A 553     -30.363  37.080  22.747  1.00 34.30      A
ATOM   4284  C   ALA A 553     -29.613  39.005  24.132  1.00 31.39      A
ATOM   4285  O   ALA A 553     -30.448  39.861  24.401  1.00 32.65      A
ATOM   4286  N   GLY A 554     -28.355  39.293  23.814  1.00 29.70      A
ATOM   4287  CA  GLY A 554     -27.914  40.676  23.736  1.00 29.26      A
ATOM   4288  C   GLY A 554     -28.242  41.273  22.373  1.00 28.50      A
ATOM   4289  O   GLY A 554     -28.337  40.552  21.374  1.00 28.87      A
ATOM   4290  N   TYR A 555     -28.412  42.588  22.311  1.00 27.49      A
ATOM   4291  CA  TYR A 555     -28.755  43.233  21.047  1.00 27.02      A
ATOM   4292  CB  TYR A 555     -30.268  43.404  20.944  1.00 26.46      A
ATOM   4293  CG  TYR A 555     -31.056  42.118  20.961  1.00 26.77      A
ATOM   4294  CD1 TYR A 555     -31.234  41.372  19.799  1.00 24.75      A
ATOM   4295  CE1 TYR A 555     -31.986  40.206  19.810  1.00 26.49      A
ATOM   4296  CD2 TYR A 555     -31.644  41.660  22.140  1.00 25.25      A
ATOM   4297  CE2 TYR A 555     -32.388  40.501  22.165  1.00 26.27      A
ATOM   4298  CZ  TYR A 555     -32.562  39.775  21.000  1.00 27.67      A
ATOM   4299  OH  TYR A 555     -33.321  38.627  21.039  1.00 26.97      A
ATOM   4300  C   TYR A 555     -28.105  44.600  20.925  1.00 26.83      A
ATOM   4301  O   TYR A 555     -28.699  45.527  20.368  1.00 25.39      A
ATOM   4302  N   SER A 556     -26.890  44.726  21.446  1.00 28.22      A
ATOM   4303  CA  SER A 556     -26.185  46.001  21.396  1.00 30.48      A
ATOM   4304  CB  SER A 556     -24.767  45.842  21.940  1.00 32.20      A
ATOM   4305  OG  SER A 556     -24.102  47.091  21.974  1.00 33.96      A
ATOM   4306  C   SER A 556     -26.128  46.559  19.980  1.00 29.74      A
ATOM   4307  O   SER A 556     -25.608  45.905  19.072  1.00 30.39      A
ATOM   4308  N   GLY A 557     -26.670  47.765  19.802  1.00 28.35      A
ATOM   4309  CA  GLY A 557     -26.669  48.407  18.497  1.00 27.42      A
ATOM   4310  C   GLY A 557     -27.536  47.716  17.461  1.00 27.75      A
ATOM   4311  O   GLY A 557     -27.520  48.086  16.280  1.00 26.39      A
ATOM   4312  N   GLY A 558     -28.305  46.723  17.914  1.00 28.31      A
ATOM   4313  CA  GLY A 558     -29.181  45.959  17.037  1.00 26.90      A
ATOM   4314  C   GLY A 558     -30.513  46.588  16.654  1.00 26.78      A
ATOM   4315  O   GLY A 558     -31.266  46.000  15.876  1.00 27.13      A
ATOM   4316  N   ASP A 559     -30.816  47.767  17.196  1.00 26.01      A
ATOM   4317  CA  ASP A 559     -32.056  48.456  16.868  1.00 25.72      A
ATOM   4318  CB  ASP A 559     -32.053  48.778  15.366  1.00 25.97      A
ATOM   4319  CG  ASP A 559     -33.145  49.750  14.961  1.00 27.50      A
ATOM   4320  OD1 ASP A 559     -33.453  50.682  15.735  1.00 28.64      A
ATOM   4321  OD2 ASP A 559     -33.680  49.594  13.850  1.00 26.19      A
ATOM   4322  C   ASP A 559     -33.257  47.585  17.256  1.00 27.40      A
ATOM   4323  O   ASP A 559     -34.186  47.395  16.473  1.00 28.36      A
ATOM   4324  N   ILE A 560     -33.229  47.060  18.477  1.00 28.15      A
ATOM   4325  CA  ILE A 560     -34.303  46.212  18.971  1.00 29.66      A
ATOM   4326  CB  ILE A 560     -33.760  44.857  19.474  1.00 27.73      A
ATOM   4327  CG2 ILE A 560     -34.871  44.062  20.152  1.00 22.90      A
ATOM   4328  CG1 ILE A 560     -33.145  44.084  18.309  1.00 25.41      A
ATOM   4329  CD1 ILE A 560     -34.073  43.889  17.135  1.00 23.81      A
ATOM   4330  C   ILE A 560     -35.119  46.846  20.096  1.00 33.51      A
ATOM   4331  O   ILE A 560     -34.578  47.407  21.049  1.00 33.38      A
ATOM   4332  N   TYR A 561     -36.432  46.724  19.981  1.00 38.65      A
ATOM   4333  CA  TYR A 561     -37.347  47.277  20.965  1.00 44.04      A
ATOM   4334  CB  TYR A 561     -37.836  48.663  20.524  1.00 44.53      A
ATOM   4335  CG  TYR A 561     -38.962  49.232  21.374  1.00 46.35      A
ATOM   4336  CD1 TYR A 561     -38.701  50.146  22.393  1.00 47.98      A
ATOM   4337  CE1 TYR A 561     -39.729  50.641  23.193  1.00 48.79      A
ATOM   4338  CD2 TYR A 561     -40.287  48.831  21.177  1.00 47.51      A
ATOM   4339  CE2 TYR A 561     -41.319  49.313  21.969  1.00 47.58      A
ATOM   4340  CZ  TYR A 561     -41.036  50.215  22.976  1.00 49.44      A
ATOM   4341  OH  TYR A 561     -42.057  50.666  23.782  1.00 50.67      A
ATOM   4342  C   TYR A 561     -38.562  46.393  21.151  1.00 47.76      A
ATOM   4343  O   TYR A 561     -39.498  46.452  20.355  1.00 47.79      A
ATOM   4344  N   HIS A 562     -38.554  45.536  22.160  1.00 52.23      A
ATOM   4345  CA  HIS A 562     -39.762  44.768  22.399  1.00 57.64      A
ATOM   4346  CB  HIS A 562     -39.616  43.256  22.098  1.00 58.50      A
ATOM   4347  CG  HIS A 562     -38.309  42.645  22.496  1.00 61.19      A
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ATOM   4348  CD2 HIS A 562     -37.331  42.083  21.746  1.00 62.18      A
ATOM   4349  ND1 HIS A 562     -37.939  42.454  23.810  1.00 63.62      A
ATOM   4350  CE1 HIS A 562     -36.793  41.796  23.852  1.00 63.80      A
ATOM   4351  NE2 HIS A 562     -36.403  41.558  22.613  1.00 62.60      A
ATOM   4352  C   HIS A 562     -40.208  45.056  23.822  1.00 59.45      A
ATOM   4353  O   HIS A 562     -39.599  44.610  24.793  1.00 60.54      A
ATOM   4354  N   SER A 563     -41.266  45.858  23.919  1.00 61.24      A
ATOM   4355  CA  SER A 563     -41.820  46.278  25.197  1.00 63.61      A
ATOM   4356  CB  SER A 563     -41.271  47.663  25.557  1.00 63.65      A
ATOM   4357  OG  SER A 563     -41.790  48.106  26.797  1.00 65.14      A
ATOM   4358  C   SER A 563     -43.351  46.312  25.181  1.00 64.35      A
ATOM   4359  O   SER A 563     -43.911  47.433  25.170  1.00 64.47      A
ATOM   4360  OXT SER A 563     -43.968  45.219  25.172  1.00 64.70      A
ATOM   4361  CB  SER B   1     -46.252  21.241  -6.638  1.00 23.68      B
ATOM   4362  OG  SER B   1     -44.990  20.596  -6.699  1.00 25.39      B
ATOM   4363  C   SER B   1     -47.210  19.096  -7.447  1.00 25.25      B
ATOM   4364  O   SER B   1     -46.899  17.956  -7.087  1.00 27.50      B
ATOM   4365  N   SER B   1     -47.301  19.671  -5.029  1.00 22.50      B
ATOM   4366  CA  SER B   1     -47.365  20.219  -6.421  1.00 25.06      B
ATOM   4367  N   MET B   2     -47.420  19.415  -8.722  1.00 23.80      B
ATOM   4368  CA  MET B   2     -47.277  18.411  -9.771  1.00 23.17      B
ATOM   4369  CB  MET B   2     -48.037  18.828 -11.034  1.00 21.26      B
ATOM   4370  CG  MET B   2     -49.558  18.792 -10.917  1.00 19.10      B
ATOM   4371  SD  MET B   2     -50.256  17.199 -10.401  1.00 21.33      B
ATOM   4372  CE  MET B   2     -49.990  16.182 -11.846  1.00 14.91      B
ATOM   4373  C   MET B   2     -45.810  18.178 -10.130  1.00 23.48      B
ATOM   4374  O   MET B   2     -45.031  19.117 -10.289  1.00 23.98      B
ATOM   4375  N   SER B   3     -45.436  16.915 -10.257  1.00 22.87      B
ATOM   4376  CA  SER B   3     -44.075  16.570 -10.621  1.00 22.79      B
ATOM   4377  CB  SER B   3     -43.947  15.050 -10.717  1.00 22.98      B
ATOM   4378  OG  SER B   3     -44.885  14.511 -11.642  1.00 23.51      B
ATOM   4379  C   SER B   3     -43.719  17.204 -11.972  1.00 23.87      B
ATOM   4380  O   SER B   3     -42.605  17.700 -12.169  1.00 25.36      B
ATOM   4381  N   TYR B   4     -44.675  17.183 -12.899  1.00 23.53      B
ATOM   4382  CA  TYR B   4     -44.469  17.732 -14.232  1.00 23.38      B
ATOM   4383  CB  TYR B   4     -44.064  16.631 -15.210  1.00 25.93      B
ATOM   4384  CG  TYR B   4     -42.722  16.006 -14.965  1.00 26.96      B
ATOM   4385  CD1 TYR B   4     -41.561  16.626 -15.400  1.00 27.46      B
ATOM   4386  CE1 TYR B   4     -40.322  16.046 -15.178  1.00 26.90      B
ATOM   4387  CD2 TYR B   4     -42.612  14.787 -14.299  1.00 25.22      B
ATOM   4388  CE2 TYR B   4     -41.382  14.204 -14.074  1.00 23.68      B
ATOM   4389  CZ  TYR B   4     -40.243  14.839 -14.514  1.00 24.59      B
ATOM   4390  OH  TYR B   4     -39.015  14.277 -14.274  1.00 25.80      B
ATOM   4391  C   TYR B   4     -45.746  18.348 -14.766  1.00 23.45      B
ATOM   4392  O   TYR B   4     -46.842  18.026 -14.301  1.00 23.88      B
ATOM   4393  N   THR B   5     -45.577  19.221 -15.758  1.00 21.84      B
ATOM   4394  CA  THR B   5     -46.667  19.887 -16.450  1.00 20.28      B
ATOM   4395  CB  THR B   5     -46.818  21.361 -16.045  1.00 17.90      B
ATOM   4396  OG1 THR B   5     -47.167  21.455 -14.660  1.00 14.79      B
ATOM   4397  CG2 THR B   5     -47.915  22.010 -16.878  1.00 15.45      B
ATOM   4398  C   THR B   5     -46.260  19.847 -17.913  1.00 22.54      B
ATOM   4399  O   THR B   5     -45.149  20.256 -18.249  1.00 22.98      B
ATOM   4400  N   TRP B   6     -47.158  19.367 -18.775  1.00 23.48      B
ATOM   4401  CA  TRP B   6     -46.884  19.249 -20.207  1.00 22.07      B
ATOM   4402  CB  TRP B   6     -47.221  17.836 -20.657  1.00 21.29      B
ATOM   4403  CG  TRP B   6     -46.575  16.807 -19.799  1.00 22.80      B
ATOM   4404  CD2 TRP B   6     -45.175  16.515 -19.724  1.00 21.99      B
ATOM   4405  CE2 TRP B   6     -45.009  15.522 -18.737  1.00 20.81      B
ATOM   4406  CE3 TRP B   6     -44.044  17.002 -20.393  1.00 21.23      B
ATOM   4407  CD1 TRP B   6     -47.184  16.000 -18.882  1.00 21.93      B
ATOM   4408  NE1 TRP B   6     -46.252  15.226 -18.241  1.00 20.48      B
ATOM   4409  CZ2 TRP B   6     -43.758  15.003 -18.399  1.00 19.87      B
ATOM   4410  CZ3 TRP B   6     -42.804  16.490 -20.059  1.00 21.71      B
ATOM   4411  CH2 TRP B   6     -42.671  15.497 -19.067  1.00 21.86      B
ATOM   4412  C   TRP B   6     -47.655  20.249 -21.064  1.00 22.44      B
ATOM   4413  O   TRP B   6     -48.781  20.604 -20.736  1.00 24.31      B
ATOM   4414  N   THR B   7     -47.045  20.683 -22.166  1.00 22.20      B
ATOM   4415  CA  THR B   7     -47.663  21.633 -23.092  1.00 23.11      B
ATOM   4416  CB  THR B   7     -46.648  22.678 -23.609  1.00 21.59      B
ATOM   4417  OG1 THR B   7     -45.697  22.031 -24.471  1.00 20.46      B
ATOM   4418  CG2 THR B   7     -45.931  23.347 -22.462  1.00 17.07      B
ATOM   4419  C   THR B   7     -48.216  20.916 -24.331  1.00 26.23      B
ATOM   4420  O   THR B   7     -48.843  21.538 -25.201  1.00 28.16      B
ATOM   4421  N   GLY B   8     -47.974  19.615 -24.421  1.00 27.43      B
ATOM   4422  CA  GLY B   8     -48.441  18.871 -25.573  1.00 29.43      B
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ATOM	4423	C	GLY	B	8	-47.322	18.678	-26.583	1.00	30.19	B
ATOM	4424	O	GLY	B	8	-47.343	17.724	-27.361	1.00	30.13	B
ATOM	4425	N	ALA	B	9	-46.351	19.588	-26.581	1.00	31.52	B
ATOM	4426	CA	ALA	B	9	-45.216	19.486	-27.495	1.00	33.29	B
ATOM	4427	CB	ALA	B	9	-44.264	20.658	-27.299	1.00	33.01	B
ATOM	4428	C	ALA	B	9	-44.504	18.164	-27.208	1.00	34.84	B
ATOM	4429	O	ALA	B	9	-44.479	17.693	-26.068	1.00	33.96	B
ATOM	4430	N	LEU	B	10	-43.901	17.582	-28.236	1.00	36.43	B
ATOM	4431	CA	LEU	B	10	-43.262	16.290	-28.079	1.00	38.04	B
ATOM	4432	CB	LEU	B	10	-43.354	15.513	-29.388	1.00	37.10	B
ATOM	4433	CG	LEU	B	10	-44.746	15.305	-29.980	1.00	35.87	B
ATOM	4434	CD1	LEU	B	10	-44.600	14.398	-31.200	1.00	33.63	B
ATOM	4435	CD2	LEU	B	10	-45.694	14.703	-28.942	1.00	33.10	B
ATOM	4436	C	LEU	B	10	-41.834	16.206	-27.590	1.00	39.68	B
ATOM	4437	O	LEU	B	10	-41.045	17.145	-27.689	1.00	39.51	B
ATOM	4438	N	ILE	B	11	-41.533	15.037	-27.049	1.00	42.07	B
ATOM	4439	CA	ILE	B	11	-40.213	14.708	-26.565	1.00	45.11	B
ATOM	4440	CB	ILE	B	11	-40.305	13.671	-25.435	1.00	44.97	B
ATOM	4441	CG2	ILE	B	11	-38.933	13.110	-25.104	1.00	45.15	B
ATOM	4442	CG1	ILE	B	11	-40.938	14.338	-24.214	1.00	43.81	B
ATOM	4443	CD1	ILE	B	11	-41.206	13.409	-23.075	1.00	44.84	B
ATOM	4444	C	ILE	B	11	-39.628	14.108	-27.824	1.00	48.04	B
ATOM	4445	O	ILE	B	11	-39.912	12.961	-28.174	1.00	46.13	B
ATOM	4446	N	THR	B	12	-38.827	14.917	-28.507	1.00	52.66	B
ATOM	4447	CA	THR	B	12	-38.228	14.532	-29.776	1.00	57.14	B
ATOM	4448	CB	THR	B	12	-38.159	15.757	-30.698	1.00	56.47	B
ATOM	4449	OG1	THR	B	12	-37.473	16.819	-30.033	1.00	56.89	B
ATOM	4450	CG2	THR	B	12	-39.571	16.226	-31.070	1.00	55.84	B
ATOM	4451	C	THR	B	12	-36.857	13.820	-29.746	1.00	61.70	B
ATOM	4452	O	THR	B	12	-36.089	13.958	-28.795	1.00	62.72	B
ATOM	4453	N	PRO	B	13	-36.546	13.049	-30.809	1.00	66.15	B
ATOM	4454	CD	PRO	B	13	-37.628	12.800	-31.769	1.00	66.95	B
ATOM	4455	CA	PRO	B	13	-35.379	12.216	-31.162	1.00	69.56	B
ATOM	4456	CB	PRO	B	13	-35.929	11.320	-32.276	1.00	69.01	B
ATOM	4457	CG	PRO	B	13	-37.416	11.362	-32.083	1.00	67.51	B
ATOM	4458	C	PRO	B	13	-34.066	12.876	-31.609	1.00	72.85	B
ATOM	4459	O	PRO	B	13	-33.315	13.429	-30.798	1.00	73.19	B
ATOM	4460	N	CYS	B	14	-33.809	12.741	-32.915	1.00	76.55	B
ATOM	4461	CA	CYS	B	14	-32.637	13.253	-33.635	1.00	80.08	B
ATOM	4462	CB	CYS	B	14	-31.921	14.345	-32.824	1.00	80.56	B
ATOM	4463	SG	CYS	B	14	-30.508	15.104	-33.694	1.00	83.26	B
ATOM	4464	C	CYS	B	14	-31.620	12.160	-34.026	1.00	81.54	B
ATOM	4465	O	CYS	B	14	-30.530	12.477	-34.500	1.00	81.43	B
ATOM	4466	N	ALA	B	15	-31.957	10.884	-33.835	1.00	83.75	B
ATOM	4467	CA	ALA	B	15	-31.025	9.795	-34.175	1.00	85.61	B
ATOM	4468	CB	ALA	B	15	-30.180	9.437	-32.957	1.00	84.97	B
ATOM	4469	C	ALA	B	15	-31.755	8.556	-34.676	1.00	86.89	B
ATOM	4470	O	ALA	B	15	-31.143	7.526	-34.991	1.00	87.17	B
ATOM	4471	N	ALA	B	16	-33.074	8.687	-34.743	1.00	88.12	B
ATOM	4472	CA	ALA	B	16	-33.970	7.633	-35.182	1.00	89.15	B
ATOM	4473	CB	ALA	B	16	-33.211	6.521	-35.895	1.00	89.34	B
ATOM	4474	C	ALA	B	16	-34.688	7.085	-33.966	1.00	90.09	B
ATOM	4475	O	ALA	B	16	-34.910	5.879	-33.842	1.00	90.43	B
ATOM	4476	N	GLU	B	17	-35.033	7.981	-33.052	1.00	90.35	B
ATOM	4477	CA	GLU	B	17	-35.759	7.576	-31.863	1.00	90.54	B
ATOM	4478	CB	GLU	B	17	-35.654	8.657	-30.789	1.00	90.09	B
ATOM	4479	CG	GLU	B	17	-34.620	8.409	-29.716	1.00	90.32	B
ATOM	4480	CD	GLU	B	17	-34.325	9.672	-28.913	1.00	90.78	B
ATOM	4481	OE1	GLU	B	17	-35.288	10.314	-28.434	1.00	91.95	B
ATOM	4482	OE2	GLU	B	17	-33.134	10.028	-28.763	1.00	90.43	B
ATOM	4483	C	GLU	B	17	-37.224	7.348	-32.259	1.00	91.03	B
ATOM	4484	O	GLU	B	17	-38.078	8.157	-31.845	1.00	91.44	B
ATOM	4485	OXT	GLU	B	17	-37.503	6.374	-32.998	1.00	91.22	B
ATOM	4486	CB	MET	B	36	-36.334	-11.620	-27.553	1.00	76.38	B
ATOM	4487	CG	MET	B	36	-37.372	-12.686	-27.840	1.00	78.04	B
ATOM	4488	SD	MET	B	36	-37.157	-14.134	-26.752	1.00	81.54	B
ATOM	4489	CE	MET	B	36	-38.400	-13.822	-25.466	1.00	79.74	B
ATOM	4490	C	MET	B	36	-35.753	-9.177	-27.576	1.00	73.65	B
ATOM	4491	O	MET	B	36	-35.882	-8.943	-26.368	1.00	73.17	B
ATOM	4492	N	MET	B	36	-36.335	-10.408	-29.715	1.00	74.87	B
ATOM	4493	CA	MET	B	36	-36.588	-10.277	-28.256	1.00	74.97	B
ATOM	4494	N	VAL	B	37	-34.909	-8.490	-28.341	1.00	71.96	B
ATOM	4495	CA	VAL	B	37	-34.047	-7.451	-27.781	1.00	70.93	B
ATOM	4496	CB	VAL	B	37	-32.565	-7.810	-27.996	1.00	70.57	B
ATOM	4497	CG1	VAL	B	37	-31.676	-6.715	-27.426	1.00	70.35	B

ATOM	4498	CG2	VAL	B	37	-32.252	-9.145	-27.342	1.00	69.89	B
ATOM	4499	C	VAL	B	37	-34.330	-6.077	-28.393	1.00	70.82	B
ATOM	4500	O	VAL	B	37	-33.966	-5.825	-29.549	1.00	70.37	B
ATOM	4501	N	TYR	B	38	-34.969	-5.198	-27.607	1.00	69.95	B
ATOM	4502	CA	TYR	B	38	-35.339	-3.850	-28.062	1.00	67.47	B
ATOM	4503	CB	TYR	B	38	-36.849	-3.636	-27.890	1.00	67.34	B
ATOM	4504	CG	TYR	B	38	-37.290	-3.611	-26.440	1.00	66.87	B
ATOM	4505	CD1	TYR	B	38	-37.326	-4.782	-25.679	1.00	66.84	B
ATOM	4506	CE1	TYR	B	38	-37.692	-4.756	-24.332	1.00	66.72	B
ATOM	4507	CD2	TYR	B	38	-37.637	-2.407	-25.815	1.00	66.52	B
ATOM	4508	CE2	TYR	B	38	-38.003	-2.371	-24.464	1.00	66.30	B
ATOM	4509	CZ	TYR	B	38	-38.027	-3.551	-23.731	1.00	66.70	B
ATOM	4510	OH	TYR	B	38	-38.372	-3.537	-22.398	1.00	66.38	B
ATOM	4511	C	TYR	B	38	-34.614	-2.691	-27.373	1.00	65.44	B
ATOM	4512	O	TYR	B	38	-34.145	-2.805	-26.238	1.00	63.71	B
ATOM	4513	N	ALA	B	39	-34.548	-1.569	-28.082	1.00	64.00	B
ATOM	4514	CA	ALA	B	39	-33.931	-0.347	-27.570	1.00	63.10	B
ATOM	4515	CB	ALA	B	39	-32.952	0.220	-28.594	1.00	62.31	B
ATOM	4516	C	ALA	B	39	-35.065	0.642	-27.324	1.00	62.16	B
ATOM	4517	O	ALA	B	39	-35.943	0.804	-28.170	1.00	61.83	B
ATOM	4518	N	THR	B	40	-35.064	1.292	-26.167	1.00	61.50	B
ATOM	4519	CA	THR	B	40	-36.122	2.248	-25.859	1.00	61.45	B
ATOM	4520	CB	THR	B	40	-35.986	2.776	-24.420	1.00	60.62	B
ATOM	4521	OG1	THR	B	40	-34.632	3.186	-24.190	1.00	60.30	B
ATOM	4522	CG2	THR	B	40	-36.365	1.694	-23.421	1.00	58.74	B
ATOM	4523	C	THR	B	40	-36.109	3.414	-26.848	1.00	61.91	B
ATOM	4524	O	THR	B	40	-35.057	3.809	-27.348	1.00	61.79	B
ATOM	4525	N	THR	B	41	-37.287	3.958	-27.132	1.00	62.64	B
ATOM	4526	CA	THR	B	41	-37.407	5.054	-28.087	1.00	62.94	B
ATOM	4527	CB	THR	B	41	-37.915	4.524	-29.438	1.00	62.78	B
ATOM	4528	OG1	THR	B	41	-38.405	5.615	-30.226	1.00	62.93	B
ATOM	4529	CG2	THR	B	41	-39.033	3.503	-29.220	1.00	62.23	B
ATOM	4530	C	THR	B	41	-38.345	6.160	-27.607	1.00	62.85	B
ATOM	4531	O	THR	B	41	-39.154	5.950	-26.697	1.00	62.90	B
ATOM	4532	N	SER	B	42	-38.241	7.332	-28.235	1.00	61.86	B
ATOM	4533	CA	SER	B	42	-39.072	8.482	-27.872	1.00	61.44	B
ATOM	4534	CB	SER	B	42	-38.601	9.733	-28.621	1.00	59.62	B
ATOM	4535	OG	SER	B	42	-38.780	9.589	-30.013	1.00	59.08	B
ATOM	4536	C	SER	B	42	-40.563	8.255	-28.142	1.00	61.79	B
ATOM	4537	O	SER	B	42	-41.420	9.004	-27.659	1.00	61.76	B
ATOM	4538	N	ARG	B	43	-40.865	7.213	-28.909	1.00	61.44	B
ATOM	4539	CA	ARG	B	43	-42.243	6.887	-29.245	1.00	60.59	B
ATOM	4540	CB	ARG	B	43	-42.254	5.869	-30.395	1.00	61.88	B
ATOM	4541	CG	ARG	B	43	-41.514	6.380	-31.643	1.00	63.82	B
ATOM	4542	CD	ARG	B	43	-41.763	5.545	-32.904	1.00	65.47	B
ATOM	4543	NE	ARG	B	43	-40.721	4.551	-33.153	1.00	66.79	B
ATOM	4544	CZ	ARG	B	43	-40.591	3.408	-32.488	1.00	68.42	B
ATOM	4545	NH1	ARG	B	43	-41.447	3.100	-31.519	1.00	69.56	B
ATOM	4546	NH2	ARG	B	43	-39.600	2.573	-32.793	1.00	68.06	B
ATOM	4547	C	ARG	B	43	-43.007	6.367	-28.017	1.00	59.47	B
ATOM	4548	O	ARG	B	43	-44.220	6.575	-27.892	1.00	59.27	B
ATOM	4549	N	SER	B	44	-42.289	5.718	-27.101	1.00	57.37	B
ATOM	4550	CA	SER	B	44	-42.903	5.189	-25.880	1.00	54.99	B
ATOM	4551	CB	SER	B	44	-42.256	3.867	-25.466	1.00	55.14	B
ATOM	4552	OG	SER	B	44	-41.001	4.093	-24.841	1.00	53.04	B
ATOM	4553	C	SER	B	44	-42.722	6.186	-24.740	1.00	53.66	B
ATOM	4554	O	SER	B	44	-43.037	5.886	-23.583	1.00	52.44	B
ATOM	4555	N	ALA	B	45	-42.193	7.362	-25.076	1.00	51.08	B
ATOM	4556	CA	ALA	B	45	-41.959	8.414	-24.095	1.00	49.14	B
ATOM	4557	CB	ALA	B	45	-41.244	9.584	-24.755	1.00	49.11	B
ATOM	4558	C	ALA	B	45	-43.274	8.879	-23.464	1.00	47.72	B
ATOM	4559	O	ALA	B	45	-43.375	9.033	-22.243	1.00	47.20	B
ATOM	4560	N	SER	B	46	-44.278	9.106	-24.305	1.00	45.50	B
ATOM	4561	CA	SER	B	46	-45.585	9.531	-23.830	1.00	42.96	B
ATOM	4562	CB	SER	B	46	-46.606	9.409	-24.959	1.00	42.58	B
ATOM	4563	OG	SER	B	46	-47.928	9.443	-24.454	1.00	41.61	B
ATOM	4564	C	SER	B	46	-45.992	8.627	-22.679	1.00	42.28	B
ATOM	4565	O	SER	B	46	-46.386	9.084	-21.609	1.00	41.64	B
ATOM	4566	N	LEU	B	47	-45.869	7.330	-22.918	1.00	41.74	B
ATOM	4567	CA	LEU	B	47	-46.222	6.321	-21.944	1.00	41.12	B
ATOM	4568	CB	LEU	B	47	-45.811	4.954	-22.476	1.00	43.20	B
ATOM	4569	CG	LEU	B	47	-46.285	3.763	-21.656	1.00	44.36	B
ATOM	4570	CD1	LEU	B	47	-47.781	3.879	-21.398	1.00	45.20	B
ATOM	4571	CD2	LEU	B	47	-45.954	2.483	-22.405	1.00	46.57	B
ATOM	4572	C	LEU	B	47	-45.583	6.560	-20.580	1.00	41.00	B

ATOM	4573	O	LEU	B	47	-46.238	6.400	-19.542	1.00	41.61	B
ATOM	4574	N	ARG	B	48	-44.312	6.950	-20.589	1.00	39.05	B
ATOM	4575	CA	ARG	B	48	-43.557	7.205	-19.365	1.00	38.35	B
ATOM	4576	CB	ARG	B	48	-42.063	7.265	-19.713	1.00	38.23	B
ATOM	4577	CG	ARG	B	48	-41.173	8.060	-18.780	1.00	37.97	B
ATOM	4578	CD	ARG	B	48	-41.091	7.491	-17.372	1.00	39.99	B
ATOM	4579	NE	ARG	B	48	-40.729	6.080	-17.343	1.00	41.95	B
ATOM	4580	CZ	ARG	B	48	-40.296	5.430	-16.262	1.00	44.71	B
ATOM	4581	NH1	ARG	B	48	-40.144	6.055	-15.092	1.00	42.96	B
ATOM	4582	NH2	ARG	B	48	-40.047	4.127	-16.346	1.00	47.12	B
ATOM	4583	C	ARG	B	48	-44.004	8.474	-18.623	1.00	38.43	B
ATOM	4584	O	ARG	B	48	-44.150	8.473	-17.387	1.00	37.38	B
ATOM	4585	N	GLN	B	49	-44.233	9.544	-19.378	1.00	36.66	B
ATOM	4586	CA	GLN	B	49	-44.657	10.810	-18.795	1.00	36.95	B
ATOM	4587	CB	GLN	B	49	-44.922	11.826	-19.900	1.00	36.26	B
ATOM	4588	CG	GLN	B	49	-43.834	11.898	-20.946	1.00	36.17	B
ATOM	4589	CD	GLN	B	49	-44.178	12.840	-22.072	1.00	35.82	B
ATOM	4590	OE1	GLN	B	49	-44.187	14.058	-21.897	1.00	35.28	B
ATOM	4591	NE2	GLN	B	49	-44.476	12.280	-23.240	1.00	37.70	B
ATOM	4592	C	GLN	B	49	-45.931	10.615	-17.979	1.00	37.70	B
ATOM	4593	O	GLN	B	49	-46.189	11.332	-17.008	1.00	37.21	B
ATOM	4594	N	LYS	B	50	-46.725	9.634	-18.383	1.00	37.26	B
ATOM	4595	CA	LYS	B	50	-47.977	9.352	-17.708	1.00	38.38	B
ATOM	4596	CB	LYS	B	50	-48.805	8.381	-18.559	1.00	39.51	B
ATOM	4597	CG	LYS	B	50	-50.303	8.357	-18.269	1.00	38.95	B
ATOM	4598	CD	LYS	B	50	-50.652	7.434	-17.127	1.00	39.43	B
ATOM	4599	CE	LYS	B	50	-52.158	7.227	-17.041	1.00	40.33	B
ATOM	4600	NZ	LYS	B	50	-52.512	6.172	-16.038	1.00	41.12	B
ATOM	4601	C	LYS	B	50	-47.699	8.758	-16.340	1.00	38.93	B
ATOM	4602	O	LYS	B	50	-48.416	9.033	-15.378	1.00	39.51	B
ATOM	4603	N	LYS	B	51	-46.642	7.957	-16.248	1.00	39.27	B
ATOM	4604	CA	LYS	B	51	-46.305	7.315	-14.985	1.00	38.26	B
ATOM	4605	CB	LYS	B	51	-45.440	6.078	-15.216	1.00	39.35	B
ATOM	4606	CG	LYS	B	51	-45.218	5.266	-13.940	1.00	41.97	B
ATOM	4607	CD	LYS	B	51	-44.153	4.204	-14.134	1.00	44.95	B
ATOM	4608	CE	LYS	B	51	-44.004	3.332	-12.889	1.00	46.29	B
ATOM	4609	NZ	LYS	B	51	-42.861	2.360	-13.003	1.00	46.62	B
ATOM	4610	C	LYS	B	51	-45.583	8.228	-14.018	1.00	37.15	B
ATOM	4611	O	LYS	B	51	-45.754	8.108	-12.811	1.00	38.29	B
ATOM	4612	N	VAL	B	52	-44.763	9.132	-14.538	1.00	35.50	B
ATOM	4613	CA	VAL	B	52	-44.022	10.030	-13.662	1.00	33.88	B
ATOM	4614	CB	VAL	B	52	-42.623	10.358	-14.234	1.00	32.97	B
ATOM	4615	CG1	VAL	B	52	-41.898	9.075	-14.577	1.00	30.24	B
ATOM	4616	CG2	VAL	B	52	-42.748	11.258	-15.448	1.00	31.14	B
ATOM	4617	C	VAL	B	52	-44.743	11.340	-13.388	1.00	32.86	B
ATOM	4618	O	VAL	B	52	-44.241	12.181	-12.653	1.00	33.41	B
ATOM	4619	N	THR	B	53	-45.921	11.517	-13.968	1.00	31.49	B
ATOM	4620	CA	THR	B	53	-46.659	12.754	-13.756	1.00	31.20	B
ATOM	4621	CB	THR	B	53	-47.284	13.276	-15.082	1.00	31.07	B
ATOM	4622	OG1	THR	B	53	-46.251	13.505	-16.048	1.00	29.61	B
ATOM	4623	CG2	THR	B	53	-48.039	14.573	-14.841	1.00	27.60	B
ATOM	4624	C	THR	B	53	-47.762	12.611	-12.710	1.00	30.92	B
ATOM	4625	O	THR	B	53	-48.827	12.048	-12.972	1.00	31.76	B
ATOM	4626	N	PHE	B	54	-47.501	13.133	-11.522	1.00	30.28	B
ATOM	4627	CA	PHE	B	54	-48.479	13.073	-10.452	1.00	30.54	B
ATOM	4628	CB	PHE	B	54	-48.445	11.693	-9.787	1.00	29.91	B
ATOM	4629	CG	PHE	B	54	-47.098	11.304	-9.247	1.00	30.01	B
ATOM	4630	CD1	PHE	B	54	-46.685	11.731	-7.996	1.00	30.41	B
ATOM	4631	CD2	PHE	B	54	-46.244	10.493	-9.992	1.00	31.37	B
ATOM	4632	CE1	PHE	B	54	-45.441	11.351	-7.490	1.00	31.08	B
ATOM	4633	CE2	PHE	B	54	-45.003	10.110	-9.498	1.00	29.95	B
ATOM	4634	CZ	PHE	B	54	-44.603	10.541	-8.242	1.00	30.74	B
ATOM	4635	C	PHE	B	54	-48.236	14.171	-9.426	1.00	30.76	B
ATOM	4636	O	PHE	B	54	-47.271	14.928	-9.529	1.00	30.65	B
ATOM	4637	N	ASP	B	55	-49.124	14.255	-8.442	1.00	31.19	B
ATOM	4638	CA	ASP	B	55	-49.018	15.260	-7.389	1.00	29.85	B
ATOM	4639	CB	ASP	B	55	-50.408	15.770	-7.013	1.00	29.64	B
ATOM	4640	CG	ASP	B	55	-50.364	17.055	-6.214	1.00	30.60	B
ATOM	4641	OD1	ASP	B	55	-49.253	17.541	-5.920	1.00	31.01	B
ATOM	4642	OD2	ASP	B	55	-51.444	17.586	-5.881	1.00	30.97	B
ATOM	4643	C	ASP	B	55	-48.354	14.675	-6.153	1.00	28.70	B
ATOM	4644	O	ASP	B	55	-48.773	13.631	-5.657	1.00	26.99	B
ATOM	4645	N	ARG	B	56	-47.303	15.336	-5.677	1.00	27.94	B
ATOM	4646	CA	ARG	B	56	-46.620	14.889	-4.480	1.00	27.81	B
ATOM	4647	CB	ARG	B	56	-45.146	15.285	-4.486	1.00	25.49	B

ATOM	4648	CG	ARG	B	56	-44.289	14.562	-5.489	1.00	24.98	B
ATOM	4649	CD	ARG	B	56	-44.604	15.022	-6.895	1.00	25.61	B
ATOM	4650	NE	ARG	B	56	-44.386	16.454	-7.085	1.00	23.83	B
ATOM	4651	CZ	ARG	B	56	-43.192	17.028	-7.183	1.00	23.65	B
ATOM	4652	NH1	ARG	B	56	-42.085	16.294	-7.109	1.00	20.11	B
ATOM	4653	NH2	ARG	B	56	-43.108	18.342	-7.364	1.00	22.84	B
ATOM	4654	C	ARG	B	56	-47.321	15.636	-3.369	1.00	29.64	B
ATOM	4655	O	ARG	B	56	-47.552	16.836	-3.492	1.00	30.86	B
ATOM	4656	N	LEU	B	57	-47.674	14.931	-2.299	1.00	30.79	B
ATOM	4657	CA	LEU	B	57	-48.342	15.554	-1.164	1.00	32.28	B
ATOM	4658	CB	LEU	B	57	-49.817	15.145	-1.158	1.00	35.02	B
ATOM	4659	CG	LEU	B	57	-50.823	16.071	-0.464	1.00	38.41	B
ATOM	4660	CD1	LEU	B	57	-50.763	17.486	-1.069	1.00	38.28	B
ATOM	4661	CD2	LEU	B	57	-52.223	15.477	-0.617	1.00	38.23	B
ATOM	4662	C	LEU	B	57	-47.612	15.070	0.097	1.00	32.21	B
ATOM	4663	O	LEU	B	57	-48.102	14.229	0.857	1.00	33.45	B
ATOM	4664	N	GLN	B	58	-46.425	15.630	0.299	1.00	30.76	B
ATOM	4665	CA	GLN	B	58	-45.530	15.283	1.397	1.00	29.11	B
ATOM	4666	CB	GLN	B	58	-44.131	15.725	0.986	1.00	27.37	B
ATOM	4667	CG	GLN	B	58	-42.999	15.347	1.888	1.00	26.33	B
ATOM	4668	CD	GLN	B	58	-41.675	15.801	1.309	1.00	26.95	B
ATOM	4669	OE1	GLN	B	58	-41.526	16.953	0.898	1.00	25.02	B
ATOM	4670	NE2	GLN	B	58	-40.707	14.901	1.270	1.00	27.17	B
ATOM	4671	C	GLN	B	58	-45.895	15.845	2.775	1.00	29.50	B
ATOM	4672	O	GLN	B	58	-46.380	16.968	2.893	1.00	28.89	B
ATOM	4673	N	VAL	B	59	-45.659	15.046	3.815	1.00	30.63	B
ATOM	4674	CA	VAL	B	59	-45.941	15.439	5.203	1.00	31.12	B
ATOM	4675	CB	VAL	B	59	-47.279	14.827	5.724	1.00	31.62	B
ATOM	4676	CG1	VAL	B	59	-47.507	15.258	7.168	1.00	27.78	B
ATOM	4677	CG2	VAL	B	59	-48.465	15.264	4.841	1.00	30.48	B
ATOM	4678	C	VAL	B	59	-44.822	14.937	6.119	1.00	30.90	B
ATOM	4679	O	VAL	B	59	-44.660	13.736	6.280	1.00	31.76	B
ATOM	4680	N	LEU	B	60	-44.077	15.848	6.737	1.00	31.05	B
ATOM	4681	CA	LEU	B	60	-42.971	15.461	7.612	1.00	32.69	B
ATOM	4682	CB	LEU	B	60	-41.788	16.405	7.391	1.00	32.81	B
ATOM	4683	CG	LEU	B	60	-41.449	16.669	5.925	1.00	33.96	B
ATOM	4684	CD1	LEU	B	60	-40.608	17.934	5.809	1.00	32.41	B
ATOM	4685	CD2	LEU	B	60	-40.743	15.458	5.343	1.00	33.11	B
ATOM	4686	C	LEU	B	60	-43.312	15.438	9.103	1.00	33.75	B
ATOM	4687	O	LEU	B	60	-44.287	16.050	9.531	1.00	34.37	B
ATOM	4688	N	ASP	B	61	-42.491	14.730	9.883	1.00	34.83	B
ATOM	4689	CA	ASP	B	61	-42.672	14.613	11.331	1.00	34.33	B
ATOM	4690	CB	ASP	B	61	-43.263	13.251	11.697	1.00	34.68	B
ATOM	4691	CG	ASP	B	61	-42.550	12.098	11.016	1.00	34.76	B
ATOM	4692	OD1	ASP	B	61	-41.306	12.087	10.982	1.00	36.22	B
ATOM	4693	OD2	ASP	B	61	-43.242	11.188	10.523	1.00	36.40	B
ATOM	4694	C	ASP	B	61	-41.367	14.807	12.099	1.00	35.65	B
ATOM	4695	O	ASP	B	61	-40.356	15.242	11.539	1.00	35.62	B
ATOM	4696	N	ASP	B	62	-41.387	14.469	13.386	1.00	36.10	B
ATOM	4697	CA	ASP	B	62	-40.202	14.643	14.211	1.00	35.88	B
ATOM	4698	CB	ASP	B	62	-40.573	14.585	15.689	1.00	37.45	B
ATOM	4699	CG	ASP	B	62	-41.263	15.846	16.155	1.00	39.44	B
ATOM	4700	OD1	ASP	B	62	-40.739	16.942	15.872	1.00	40.87	B
ATOM	4701	OD2	ASP	B	62	-42.322	15.748	16.808	1.00	41.78	B
ATOM	4702	C	ASP	B	62	-39.065	13.676	13.930	1.00	35.08	B
ATOM	4703	O	ASP	B	62	-37.906	13.994	14.196	1.00	34.94	B
ATOM	4704	N	HIS	B	63	-39.382	12.498	13.405	1.00	33.62	B
ATOM	4705	CA	HIS	B	63	-38.339	11.532	13.098	1.00	32.66	B
ATOM	4706	CB	HIS	B	63	-38.945	10.179	12.751	1.00	34.03	B
ATOM	4707	CG	HIS	B	63	-39.354	9.384	13.948	1.00	37.06	B
ATOM	4708	CD2	HIS	B	63	-40.543	8.834	14.293	1.00	37.58	B
ATOM	4709	ND1	HIS	B	63	-38.475	9.065	14.961	1.00	37.55	B
ATOM	4710	CE1	HIS	B	63	-39.105	8.352	15.876	1.00	38.05	B
ATOM	4711	NE2	HIS	B	63	-40.361	8.198	15.495	1.00	37.25	B
ATOM	4712	C	HIS	B	63	-37.540	12.066	11.928	1.00	32.32	B
ATOM	4713	O	HIS	B	63	-36.311	11.970	11.900	1.00	30.95	B
ATOM	4714	N	TYR	B	64	-38.256	12.637	10.966	1.00	31.67	B
ATOM	4715	CA	TYR	B	64	-37.641	13.219	9.789	1.00	31.25	B
ATOM	4716	CB	TYR	B	64	-38.721	13.754	8.844	1.00	31.92	B
ATOM	4717	CG	TYR	B	64	-38.195	14.393	7.569	1.00	32.70	B
ATOM	4718	CD1	TYR	B	64	-37.919	13.626	6.439	1.00	31.62	B
ATOM	4719	CE1	TYR	B	64	-37.435	14.214	5.273	1.00	31.89	B
ATOM	4720	CD2	TYR	B	64	-37.968	15.770	7.497	1.00	32.60	B
ATOM	4721	CE2	TYR	B	64	-37.482	16.367	6.330	1.00	31.73	B
ATOM	4722	CZ	TYR	B	64	-37.220	15.587	5.226	1.00	31.56	B

ATOM	4723	OH	TYR	B	64	-36.753	16.172	4.075	1.00	31.72	B
ATOM	4724	C	TYR	B	64	-36.761	14.368	10.262	1.00	31.03	B
ATOM	4725	O	TYR	B	64	-35.573	14.422	9.960	1.00	31.87	B
ATOM	4726	N	ARG	B	65	-37.351	15.282	11.022	1.00	30.80	B
ATOM	4727	CA	ARG	B	65	-36.608	16.431	11.511	1.00	31.18	B
ATOM	4728	CB	ARG	B	65	-37.553	17.410	12.221	1.00	31.44	B
ATOM	4729	CG	ARG	B	65	-38.434	18.198	11.249	1.00	32.81	B
ATOM	4730	CD	ARG	B	65	-39.309	19.207	11.969	1.00	36.41	B
ATOM	4731	NE	ARG	B	65	-40.341	18.563	12.785	1.00	37.40	B
ATOM	4732	CZ	ARG	B	65	-41.575	18.291	12.367	1.00	36.96	B
ATOM	4733	NH1	ARG	B	65	-41.950	18.608	11.132	1.00	35.51	B
ATOM	4734	NH2	ARG	B	65	-42.433	17.697	13.189	1.00	36.42	B
ATOM	4735	C	ARG	B	65	-35.474	16.001	12.420	1.00	30.65	B
ATOM	4736	O	ARG	B	65	-34.445	16.668	12.509	1.00	32.22	B
ATOM	4737	N	ASP	B	66	-35.656	14.871	13.082	1.00	29.93	B
ATOM	4738	CA	ASP	B	66	-34.638	14.348	13.974	1.00	30.36	B
ATOM	4739	CB	ASP	B	66	-35.208	13.185	14.776	1.00	32.50	B
ATOM	4740	CG	ASP	B	66	-35.701	13.600	16.134	1.00	33.23	B
ATOM	4741	OD1	ASP	B	66	-36.196	14.740	16.261	1.00	32.66	B
ATOM	4742	OD2	ASP	B	66	-35.600	12.768	17.066	1.00	35.13	B
ATOM	4743	C	ASP	B	66	-33.405	13.869	13.213	1.00	30.24	B
ATOM	4744	O	ASP	B	66	-32.275	14.188	13.592	1.00	30.89	B
ATOM	4745	N	VAL	B	67	-33.625	13.099	12.147	1.00	28.50	B
ATOM	4746	CA	VAL	B	67	-32.525	12.554	11.351	1.00	25.20	B
ATOM	4747	CB	VAL	B	67	-33.034	11.473	10.348	1.00	24.83	B
ATOM	4748	CG1	VAL	B	67	-31.891	10.970	9.484	1.00	21.01	B
ATOM	4749	CG2	VAL	B	67	-33.661	10.310	11.114	1.00	21.64	B
ATOM	4750	C	VAL	B	67	-31.775	13.635	10.593	1.00	23.91	B
ATOM	4751	O	VAL	B	67	-30.539	13.615	10.535	1.00	21.45	B
ATOM	4752	N	LEU	B	68	-32.524	14.577	10.021	1.00	23.61	B
ATOM	4753	CA	LEU	B	68	-31.922	15.673	9.261	1.00	23.30	B
ATOM	4754	CB	LEU	B	68	-32.992	16.667	8.803	1.00	20.46	B
ATOM	4755	CG	LEU	B	68	-32.598	17.879	7.946	1.00	17.31	B
ATOM	4756	CD1	LEU	B	68	-31.750	17.482	6.762	1.00	17.18	B
ATOM	4757	CD2	LEU	B	68	-33.857	18.547	7.467	1.00	15.82	B
ATOM	4758	C	LEU	B	68	-30.890	16.373	10.125	1.00	24.13	B
ATOM	4759	O	LEU	B	68	-29.733	16.529	9.716	1.00	25.85	B
ATOM	4760	N	LYS	B	69	-31.293	16.773	11.326	1.00	22.91	B
ATOM	4761	CA	LYS	B	69	-30.359	17.431	12.229	1.00	24.90	B
ATOM	4762	CB	LYS	B	69	-31.033	17.708	13.574	1.00	25.39	B
ATOM	4763	CG	LYS	B	69	-32.164	18.698	13.493	1.00	25.72	B
ATOM	4764	CD	LYS	B	69	-32.792	18.894	14.842	1.00	28.10	B
ATOM	4765	CE	LYS	B	69	-33.891	19.939	14.783	1.00	30.95	B
ATOM	4766	NZ	LYS	B	69	-34.476	20.203	16.133	1.00	32.44	B
ATOM	4767	C	LYS	B	69	-29.090	16.594	12.444	1.00	24.31	B
ATOM	4768	O	LYS	B	69	-27.986	17.114	12.453	1.00	23.27	B
ATOM	4769	N	GLU	B	70	-29.252	15.289	12.611	1.00	26.68	B
ATOM	4770	CA	GLU	B	70	-28.108	14.405	12.826	1.00	26.82	B
ATOM	4771	CB	GLU	B	70	-28.605	12.990	13.139	1.00	27.21	B
ATOM	4772	CG	GLU	B	70	-29.186	12.848	14.545	1.00	29.10	B
ATOM	4773	CD	GLU	B	70	-29.945	11.539	14.752	1.00	34.68	B
ATOM	4774	OE1	GLU	B	70	-29.461	10.473	14.302	1.00	34.64	B
ATOM	4775	OE2	GLU	B	70	-31.032	11.576	15.380	1.00	37.74	B
ATOM	4776	C	GLU	B	70	-27.223	14.412	11.591	1.00	26.18	B
ATOM	4777	O	GLU	B	70	-26.003	14.568	11.674	1.00	24.91	B
ATOM	4778	N	MET	B	71	-27.851	14.261	10.436	1.00	26.47	B
ATOM	4779	CA	MET	B	71	-27.104	14.263	9.194	1.00	26.96	B
ATOM	4780	CB	MET	B	71	-28.058	14.064	8.027	1.00	28.04	B
ATOM	4781	CG	MET	B	71	-28.717	12.708	7.985	1.00	25.80	B
ATOM	4782	SD	MET	B	71	-29.907	12.740	6.651	1.00	29.64	B
ATOM	4783	CE	MET	B	71	-28.969	12.076	5.298	1.00	26.00	B
ATOM	4784	C	MET	B	71	-26.334	15.572	9.025	1.00	25.88	B
ATOM	4785	O	MET	B	71	-25.175	15.570	8.614	1.00	25.19	B
ATOM	4786	N	LYS	B	72	-26.987	16.685	9.351	1.00	24.73	B
ATOM	4787	CA	LYS	B	72	-26.376	18.009	9.234	1.00	23.10	B
ATOM	4788	CB	LYS	B	72	-27.413	19.092	9.550	1.00	19.09	B
ATOM	4789	CG	LYS	B	72	-28.582	19.120	8.603	1.00	17.45	B
ATOM	4790	CD	LYS	B	72	-29.502	20.312	8.866	1.00	15.87	B
ATOM	4791	CE	LYS	B	72	-28.870	21.614	8.446	1.00	13.81	B
ATOM	4792	NZ	LYS	B	72	-29.725	22.773	8.777	1.00	12.83	B
ATOM	4793	C	LYS	B	72	-25.138	18.221	10.126	1.00	22.74	B
ATOM	4794	O	LYS	B	72	-24.137	18.770	9.680	1.00	20.94	B
ATOM	4795	N	ALA	B	73	-25.211	17.800	11.386	1.00	23.48	B
ATOM	4796	CA	ALA	B	73	-24.092	17.974	12.305	1.00	24.20	B
ATOM	4797	CB	ALA	B	73	-24.429	17.379	13.650	1.00	21.16	B

ATOM	4798	C	ALA	B	73	-22.842	17.315	11.731	1.00	26.33	B
ATOM	4799	O	ALA	B	73	-21.727	17.812	11.912	1.00	27.33	B
ATOM	4800	N	LYS	B	74	-23.034	16.197	11.033	1.00	27.26	B
ATOM	4801	CA	LYS	B	74	-21.926	15.481	10.416	1.00	27.24	B
ATOM	4802	CB	LYS	B	74	-22.346	14.080	10.000	1.00	29.34	B
ATOM	4803	CG	LYS	B	74	-22.459	13.066	11.116	1.00	32.45	B
ATOM	4804	CD	LYS	B	74	-22.841	11.734	10.488	1.00	38.25	B
ATOM	4805	CE	LYS	B	74	-22.838	10.561	11.454	1.00	40.62	B
ATOM	4806	NZ	LYS	B	74	-23.280	9.323	10.718	1.00	43.65	B
ATOM	4807	C	LYS	B	74	-21.443	16.222	9.184	1.00	27.72	B
ATOM	4808	O	LYS	B	74	-20.257	16.195	8.871	1.00	29.65	B
ATOM	4809	N	ALA	B	75	-22.359	16.874	8.473	1.00	27.55	B
ATOM	4810	CA	ALA	B	75	-21.983	17.626	7.280	1.00	27.08	B
ATOM	4811	CB	ALA	B	75	-23.229	18.079	6.533	1.00	27.92	B
ATOM	4812	C	ALA	B	75	-21.132	18.836	7.673	1.00	26.53	B
ATOM	4813	O	ALA	B	75	-20.281	19.284	6.905	1.00	24.61	B
ATOM	4814	N	SER	B	76	-21.369	19.335	8.885	1.00	27.44	B
ATOM	4815	CA	SER	B	76	-20.666	20.493	9.450	1.00	29.73	B
ATOM	4816	CB	SER	B	76	-21.132	20.737	10.888	1.00	31.51	B
ATOM	4817	OG	SER	B	76	-22.438	21.289	10.914	1.00	37.18	B
ATOM	4818	C	SER	B	76	-19.151	20.377	9.456	1.00	29.57	B
ATOM	4819	O	SER	B	76	-18.437	21.378	9.304	1.00	29.39	B
ATOM	4820	N	THR	B	77	-18.675	19.151	9.648	1.00	28.58	B
ATOM	4821	CA	THR	B	77	-17.252	18.845	9.696	1.00	27.31	B
ATOM	4822	CB	THR	B	77	-17.035	17.375	10.153	1.00	28.88	B
ATOM	4823	OG1	THR	B	77	-17.404	16.482	9.092	1.00	30.52	B
ATOM	4824	CG2	THR	B	77	-17.902	17.049	11.365	1.00	27.22	B
ATOM	4825	C	THR	B	77	-16.559	19.031	8.336	1.00	26.88	B
ATOM	4826	O	THR	B	77	-15.356	19.282	8.283	1.00	26.67	B
ATOM	4827	N	VAL	B	78	-17.325	18.916	7.249	1.00	25.34	B
ATOM	4828	CA	VAL	B	78	-16.804	19.014	5.883	1.00	23.65	B
ATOM	4829	CB	VAL	B	78	-17.832	18.456	4.866	1.00	21.39	B
ATOM	4830	CG1	VAL	B	78	-17.260	18.500	3.478	1.00	18.26	B
ATOM	4831	CG2	VAL	B	78	-18.206	17.048	5.219	1.00	19.38	B
ATOM	4832	C	VAL	B	78	-16.371	20.389	5.372	1.00	25.42	B
ATOM	4833	O	VAL	B	78	-17.095	21.368	5.526	1.00	26.26	B
ATOM	4834	N	LYS	B	79	-15.186	20.447	4.756	1.00	26.69	B
ATOM	4835	CA	LYS	B	79	-14.670	21.686	4.168	1.00	27.82	B
ATOM	4836	CB	LYS	B	79	-13.334	22.102	4.780	1.00	28.45	B
ATOM	4837	CG	LYS	B	79	-12.760	23.365	4.125	1.00	30.62	B
ATOM	4838	CD	LYS	B	79	-11.531	23.881	4.851	1.00	32.68	B
ATOM	4839	CE	LYS	B	79	-10.956	25.145	4.195	1.00	35.01	B
ATOM	4840	NZ	LYS	B	79	-9.933	25.849	5.061	1.00	34.36	B
ATOM	4841	C	LYS	B	79	-14.479	21.471	2.673	1.00	27.52	B
ATOM	4842	O	LYS	B	79	-13.413	21.069	2.219	1.00	26.91	B
ATOM	4843	N	ALA	B	80	-15.532	21.738	1.914	1.00	28.65	B
ATOM	4844	CA	ALA	B	80	-15.512	21.566	0.472	1.00	28.61	B
ATOM	4845	CB	ALA	B	80	-16.934	21.496	-0.058	1.00	29.21	B
ATOM	4846	C	ALA	B	80	-14.775	22.710	-0.179	1.00	28.27	B
ATOM	4847	O	ALA	B	80	-14.859	23.843	0.275	1.00	29.25	B
ATOM	4848	N	LYS	B	81	-14.066	22.401	-1.255	1.00	29.43	B
ATOM	4849	CA	LYS	B	81	-13.301	23.392	-1.991	1.00	32.94	B
ATOM	4850	CB	LYS	B	81	-11.895	22.876	-2.277	1.00	38.35	B
ATOM	4851	CG	LYS	B	81	-10.910	22.948	-1.120	1.00	46.30	B
ATOM	4852	CD	LYS	B	81	-9.686	22.090	-1.460	1.00	50.65	B
ATOM	4853	CE	LYS	B	81	-8.557	22.223	-0.448	1.00	52.59	B
ATOM	4854	NZ	LYS	B	81	-7.450	21.272	-0.794	1.00	53.97	B
ATOM	4855	C	LYS	B	81	-13.938	23.758	-3.321	1.00	32.21	B
ATOM	4856	O	LYS	B	81	-14.729	23.012	-3.886	1.00	32.49	B
ATOM	4857	N	LEU	B	82	-13.553	24.924	-3.813	1.00	31.55	B
ATOM	4858	CA	LEU	B	82	-14.016	25.455	-5.082	1.00	29.74	B
ATOM	4859	CB	LEU	B	82	-13.977	26.983	-5.004	1.00	28.83	B
ATOM	4860	CG	LEU	B	82	-14.503	27.819	-6.160	1.00	28.44	B
ATOM	4861	CD1	LEU	B	82	-15.924	27.404	-6.482	1.00	29.39	B
ATOM	4862	CD2	LEU	B	82	-14.439	29.283	-5.781	1.00	25.91	B
ATOM	4863	C	LEU	B	82	-13.061	24.940	-6.169	1.00	30.26	B
ATOM	4864	O	LEU	B	82	-11.841	25.021	-6.022	1.00	30.34	B
ATOM	4865	N	LEU	B	83	-13.606	24.396	-7.251	1.00	31.21	B
ATOM	4866	CA	LEU	B	83	-12.776	23.882	-8.333	1.00	30.76	B
ATOM	4867	CB	LEU	B	83	-13.493	22.761	-9.081	1.00	29.95	B
ATOM	4868	CG	LEU	B	83	-12.994	21.341	-8.798	1.00	30.62	B
ATOM	4869	CD1	LEU	B	83	-13.337	20.968	-7.374	1.00	28.61	B
ATOM	4870	CD2	LEU	B	83	-13.619	20.356	-9.788	1.00	28.98	B
ATOM	4871	C	LEU	B	83	-12.418	24.975	-9.318	1.00	32.65	B
ATOM	4872	O	LEU	B	83	-13.195	25.895	-9.544	1.00	33.33	B

ATOM	4873	N	SER	B	84	-11.226	24.883	-9.898	1.00	34.61	B
ATOM	4874	CA	SER	B	84	-10.786	25.866	-10.885	1.00	34.90	B
ATOM	4875	CB	SER	B	84	-9.294	25.707	-11.165	1.00	34.73	B
ATOM	4876	OG	SER	B	84	-9.017	24.402	-11.649	1.00	33.52	B
ATOM	4877	C	SER	B	84	-11.550	25.571	-12.162	1.00	35.27	B
ATOM	4878	O	SER	B	84	-11.977	24.433	-12.382	1.00	34.32	B
ATOM	4879	N	ILE	B	85	-11.728	26.587	-12.996	1.00	35.62	B
ATOM	4880	CA	ILE	B	85	-12.421	26.387	-14.258	1.00	37.18	B
ATOM	4881	CB	ILE	B	85	-12.335	27.639	-15.149	1.00	36.44	B
ATOM	4882	CG2	ILE	B	85	-12.841	27.331	-16.549	1.00	34.24	B
ATOM	4883	CG1	ILE	B	85	-13.148	28.763	-14.504	1.00	38.37	B
ATOM	4884	CD1	ILE	B	85	-13.187	30.056	-15.296	1.00	39.76	B
ATOM	4885	C	ILE	B	85	-11.732	25.223	-14.956	1.00	38.34	B
ATOM	4886	O	ILE	B	85	-12.376	24.267	-15.403	1.00	38.17	B
ATOM	4887	N	GLU	B	86	-10.410	25.298	-15.020	1.00	39.25	B
ATOM	4888	CA	GLU	B	86	-9.635	24.256	-15.661	1.00	40.68	B
ATOM	4889	CB	GLU	B	86	-8.150	24.513	-15.488	1.00	43.54	B
ATOM	4890	CG	GLU	B	86	-7.312	23.635	-16.386	1.00	49.55	B
ATOM	4891	CD	GLU	B	86	-5.837	23.884	-16.220	1.00	51.64	B
ATOM	4892	OE1	GLU	B	86	-5.440	25.070	-16.243	1.00	52.11	B
ATOM	4893	OE2	GLU	B	86	-5.081	22.897	-16.073	1.00	53.55	B
ATOM	4894	C	GLU	B	86	-9.972	22.894	-15.095	1.00	40.25	B
ATOM	4895	O	GLU	B	86	-10.278	21.966	-15.841	1.00	40.24	B
ATOM	4896	N	GLU	B	87	-9.913	22.774	-13.772	1.00	40.65	B
ATOM	4897	CA	GLU	B	87	-10.226	21.511	-13.106	1.00	41.01	B
ATOM	4898	CB	GLU	B	87	-10.198	21.677	-11.591	1.00	43.30	B
ATOM	4899	CG	GLU	B	87	-8.839	21.438	-10.971	1.00	46.74	B
ATOM	4900	CD	GLU	B	87	-8.913	21.327	-9.460	1.00	48.00	B
ATOM	4901	OE1	GLU	B	87	-9.079	22.376	-8.787	1.00	48.92	B
ATOM	4902	OE2	GLU	B	87	-8.819	20.183	-8.957	1.00	46.45	B
ATOM	4903	C	GLU	B	87	-11.591	20.993	-13.507	1.00	40.01	B
ATOM	4904	O	GLU	B	87	-11.776	19.793	-13.711	1.00	39.44	B
ATOM	4905	N	ALA	B	88	-12.549	21.908	-13.601	1.00	38.77	B
ATOM	4906	CA	ALA	B	88	-13.903	21.555	-13.974	1.00	36.80	B
ATOM	4907	CB	ALA	B	88	-14.806	22.754	-13.825	1.00	37.58	B
ATOM	4908	C	ALA	B	88	-13.910	21.080	-15.410	1.00	36.48	B
ATOM	4909	O	ALA	B	88	-14.582	20.116	-15.755	1.00	36.99	B
ATOM	4910	N	CYS	B	89	-13.150	21.759	-16.254	1.00	35.91	B
ATOM	4911	CA	CYS	B	89	-13.109	21.385	-17.650	1.00	35.51	B
ATOM	4912	CB	CYS	B	89	-12.296	22.414	-18.436	1.00	34.24	B
ATOM	4913	SG	CYS	B	89	-13.192	23.993	-18.690	1.00	32.72	B
ATOM	4914	C	CYS	B	89	-12.563	19.980	-17.866	1.00	36.05	B
ATOM	4915	O	CYS	B	89	-13.094	19.215	-18.676	1.00	36.23	B
ATOM	4916	N	LYS	B	90	-11.516	19.633	-17.126	1.00	37.07	B
ATOM	4917	CA	LYS	B	90	-10.898	18.322	-17.262	1.00	37.97	B
ATOM	4918	CB	LYS	B	90	-9.598	18.254	-16.460	1.00	40.61	B
ATOM	4919	CG	LYS	B	90	-8.995	16.865	-16.488	1.00	46.19	B
ATOM	4920	CD	LYS	B	90	-7.545	16.821	-16.065	1.00	49.99	B
ATOM	4921	CE	LYS	B	90	-6.951	15.468	-16.440	1.00	52.03	B
ATOM	4922	NZ	LYS	B	90	-5.531	15.336	-16.015	1.00	55.58	B
ATOM	4923	C	LYS	B	90	-11.803	17.161	-16.855	1.00	37.76	B
ATOM	4924	O	LYS	B	90	-11.648	16.036	-17.348	1.00	37.45	B
ATOM	4925	N	LEU	B	91	-12.744	17.431	-15.954	1.00	36.83	B
ATOM	4926	CA	LEU	B	91	-13.675	16.411	-15.489	1.00	34.41	B
ATOM	4927	CB	LEU	B	91	-14.364	16.880	-14.218	1.00	32.72	B
ATOM	4928	CG	LEU	B	91	-13.591	16.768	-12.913	1.00	31.33	B
ATOM	4929	CD1	LEU	B	91	-14.335	17.505	-11.822	1.00	32.20	B
ATOM	4930	CD2	LEU	B	91	-13.435	15.316	-12.544	1.00	30.42	B
ATOM	4931	C	LEU	B	91	-14.739	16.054	-16.520	1.00	34.93	B
ATOM	4932	O	LEU	B	91	-15.380	15.020	-16.406	1.00	36.25	B
ATOM	4933	N	THR	B	92	-14.915	16.905	-17.526	1.00	36.09	B
ATOM	4934	CA	THR	B	92	-15.916	16.704	-18.578	1.00	36.82	B
ATOM	4935	CB	THR	B	92	-16.095	17.994	-19.399	1.00	35.48	B
ATOM	4936	OG1	THR	B	92	-16.163	19.115	-18.517	1.00	35.30	B
ATOM	4937	CG2	THR	B	92	-17.376	17.930	-20.212	1.00	35.19	B
ATOM	4938	C	THR	B	92	-15.671	15.564	-19.587	1.00	37.96	B
ATOM	4939	O	THR	B	92	-14.624	15.495	-20.223	1.00	37.50	B
ATOM	4940	N	PRO	B	93	-16.650	14.660	-19.753	1.00	39.82	B
ATOM	4941	CD	PRO	B	93	-17.925	14.514	-19.029	1.00	40.47	B
ATOM	4942	CA	PRO	B	93	-16.468	13.566	-20.712	1.00	40.62	B
ATOM	4943	CB	PRO	B	93	-17.792	12.807	-20.630	1.00	40.73	B
ATOM	4944	CG	PRO	B	93	-18.227	13.039	-19.219	1.00	41.32	B
ATOM	4945	C	PRO	B	93	-16.240	14.167	-22.098	1.00	41.07	B
ATOM	4946	O	PRO	B	93	-16.809	15.207	-22.430	1.00	41.72	B
ATOM	4947	N	PRO	B	94	-15.406	13.519	-22.922	1.00	42.03	B

ATOM	4948	CD	PRO	B	94	-14.556	12.380	-22.548	1.00	43.13	B
ATOM	4949	CA	PRO	B	94	-15.083	13.974	-24.278	1.00	41.81	B
ATOM	4950	CB	PRO	B	94	-13.982	13.014	-24.714	1.00	41.75	B
ATOM	4951	CG	PRO	B	94	-13.358	12.595	-23.428	1.00	42.74	B
ATOM	4952	C	PRO	B	94	-16.249	13.975	-25.257	1.00	41.63	B
ATOM	4953	O	PRO	B	94	-16.246	14.732	-26.220	1.00	42.45	B
ATOM	4954	N	HIS	B	95	-17.244	13.129	-25.037	1.00	41.33	B
ATOM	4955	CA	HIS	B	95	-18.369	13.115	-25.958	1.00	42.66	B
ATOM	4956	CB	HIS	B	95	-18.658	11.689	-26.443	1.00	47.20	B
ATOM	4957	CG	HIS	B	95	-17.675	11.182	-27.456	1.00	51.67	B
ATOM	4958	CD2	HIS	B	95	-17.684	11.239	-28.811	1.00	52.41	B
ATOM	4959	ND1	HIS	B	95	-16.500	10.548	-27.107	1.00	52.93	B
ATOM	4960	CE1	HIS	B	95	-15.828	10.237	-28.203	1.00	54.09	B
ATOM	4961	NE2	HIS	B	95	-16.524	10.646	-29.249	1.00	54.00	B
ATOM	4962	C	HIS	B	95	-19.628	13.740	-25.358	1.00	41.73	B
ATOM	4963	O	HIS	B	95	-20.732	13.601	-25.902	1.00	40.85	B
ATOM	4964	N	SER	B	96	-19.448	14.433	-24.235	1.00	40.03	B
ATOM	4965	CA	SER	B	96	-20.543	15.118	-23.551	1.00	37.26	B
ATOM	4966	CB	SER	B	96	-19.960	15.998	-22.431	1.00	37.08	B
ATOM	4967	OG	SER	B	96	-20.971	16.599	-21.635	1.00	37.53	B
ATOM	4968	C	SER	B	96	-21.319	15.975	-24.574	1.00	35.94	B
ATOM	4969	O	SER	B	96	-20.764	16.377	-25.602	1.00	34.13	B
ATOM	4970	N	ALA	B	97	-22.596	16.242	-24.302	1.00	34.81	B
ATOM	4971	CA	ALA	B	97	-23.435	17.046	-25.204	1.00	33.91	B
ATOM	4972	CB	ALA	B	97	-24.845	17.149	-24.657	1.00	31.33	B
ATOM	4973	C	ALA	B	97	-22.867	18.441	-25.403	1.00	35.23	B
ATOM	4974	O	ALA	B	97	-22.623	19.164	-24.438	1.00	36.53	B
ATOM	4975	N	LYS	B	98	-22.663	18.828	-26.656	1.00	36.02	B
ATOM	4976	CA	LYS	B	98	-22.105	20.141	-26.952	1.00	36.28	B
ATOM	4977	CB	LYS	B	98	-21.941	20.319	-28.464	1.00	37.76	B
ATOM	4978	CG	LYS	B	98	-23.245	20.344	-29.238	1.00	36.35	B
ATOM	4979	CD	LYS	B	98	-23.003	20.705	-30.685	1.00	36.84	B
ATOM	4980	CE	LYS	B	98	-24.302	20.851	-31.446	1.00	37.33	B
ATOM	4981	NZ	LYS	B	98	-24.074	21.478	-32.781	1.00	40.20	B
ATOM	4982	C	LYS	B	98	-22.990	21.248	-26.403	1.00	36.27	B
ATOM	4983	O	LYS	B	98	-24.138	21.004	-26.014	1.00	35.18	B
ATOM	4984	N	SER	B	99	-22.452	22.465	-26.372	1.00	35.46	B
ATOM	4985	CA	SER	B	99	-23.201	23.608	-25.875	1.00	35.08	B
ATOM	4986	CB	SER	B	99	-22.285	24.668	-25.301	1.00	33.25	B
ATOM	4987	OG	SER	B	99	-23.037	25.846	-25.079	1.00	26.89	B
ATOM	4988	C	SER	B	99	-24.023	24.274	-26.945	1.00	36.78	B
ATOM	4989	O	SER	B	99	-23.659	24.282	-28.116	1.00	38.66	B
ATOM	4990	N	LYS	B	100	-25.130	24.862	-26.523	1.00	37.62	B
ATOM	4991	CA	LYS	B	100	-26.017	25.566	-27.429	1.00	37.92	B
ATOM	4992	CB	LYS	B	100	-27.272	25.990	-26.652	1.00	41.32	B
ATOM	4993	CG	LYS	B	100	-28.265	26.831	-27.429	1.00	46.05	B
ATOM	4994	CD	LYS	B	100	-29.435	27.289	-26.549	1.00	47.98	B
ATOM	4995	CE	LYS	B	100	-30.464	28.064	-27.389	1.00	50.56	B
ATOM	4996	NZ	LYS	B	100	-31.529	28.735	-26.579	1.00	51.75	B
ATOM	4997	C	LYS	B	100	-25.282	26.798	-27.965	1.00	35.96	B
ATOM	4998	O	LYS	B	100	-25.691	27.400	-28.961	1.00	35.24	B
ATOM	4999	N	PHE	B	101	-24.178	27.142	-27.304	1.00	33.60	B
ATOM	5000	CA	PHE	B	101	-23.403	28.325	-27.647	1.00	32.14	B
ATOM	5001	CB	PHE	B	101	-23.025	29.066	-26.363	1.00	31.99	B
ATOM	5002	CG	PHE	B	101	-24.207	29.588	-25.611	1.00	32.25	B
ATOM	5003	CD1	PHE	B	101	-24.842	30.760	-26.017	1.00	32.51	B
ATOM	5004	CD2	PHE	B	101	-24.741	28.869	-24.547	1.00	31.29	B
ATOM	5005	CE1	PHE	B	101	-26.001	31.209	-25.379	1.00	32.41	B
ATOM	5006	CE2	PHE	B	101	-25.895	29.306	-23.905	1.00	32.16	B
ATOM	5007	CZ	PHE	B	101	-26.529	30.480	-24.323	1.00	31.71	B
ATOM	5008	C	PHE	B	101	-22.167	28.163	-28.503	1.00	31.13	B
ATOM	5009	O	PHE	B	101	-21.217	28.914	-28.343	1.00	30.92	B
ATOM	5010	N	GLY	B	102	-22.160	27.179	-29.391	1.00	31.25	B
ATOM	5011	CA	GLY	B	102	-21.020	27.012	-30.280	1.00	30.89	B
ATOM	5012	C	GLY	B	102	-19.713	26.402	-29.809	1.00	30.80	B
ATOM	5013	O	GLY	B	102	-18.641	26.912	-30.136	1.00	30.69	B
ATOM	5014	N	TYR	B	103	-19.790	25.320	-29.046	1.00	30.89	B
ATOM	5015	CA	TYR	B	103	-18.592	24.624	-28.595	1.00	32.66	B
ATOM	5016	CB	TYR	B	103	-17.784	25.479	-27.610	1.00	33.88	B
ATOM	5017	CG	TYR	B	103	-18.439	25.737	-26.276	1.00	35.35	B
ATOM	5018	CD1	TYR	B	103	-18.321	24.820	-25.223	1.00	34.59	B
ATOM	5019	CE1	TYR	B	103	-18.945	25.050	-23.998	1.00	33.52	B
ATOM	5020	CD2	TYR	B	103	-19.196	26.890	-26.067	1.00	35.37	B
ATOM	5021	CE2	TYR	B	103	-19.826	27.125	-24.845	1.00	34.62	B
ATOM	5022	CZ	TYR	B	103	-19.695	26.204	-23.822	1.00	33.57	B

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ATOM   5023  OH  TYR B 103     -20.323  26.448 -22.626  1.00 34.71      B
ATOM   5024  C   TYR B 103     -19.008  23.299 -27.975  1.00 33.83      B
ATOM   5025  O   TYR B 103     -20.183  23.113 -27.635  1.00 34.73      B
ATOM   5026  N   GLY B 104     -18.061  22.373 -27.855  1.00 32.65      B
ATOM   5027  CA  GLY B 104     -18.380  21.071 -27.302  1.00 33.24      B
ATOM   5028  C   GLY B 104     -17.405  20.573 -26.254  1.00 34.96      B
ATOM   5029  O   GLY B 104     -16.492  21.290 -25.840  1.00 34.63      B
ATOM   5030  N   ALA B 105     -17.603  19.334 -25.818  1.00 35.69      B
ATOM   5031  CA  ALA B 105     -16.739  18.740 -24.807  1.00 37.15      B
ATOM   5032  CB  ALA B 105     -17.006  17.249 -24.707  1.00 37.47      B
ATOM   5033  C   ALA B 105     -15.298  18.980 -25.201  1.00 38.12      B
ATOM   5034  O   ALA B 105     -14.473  19.419 -24.389  1.00 36.56      B
ATOM   5035  N   LYS B 106     -15.025  18.684 -26.470  1.00 39.44      B
ATOM   5036  CA  LYS B 106     -13.709  18.834 -27.075  1.00 39.87      B
ATOM   5037  CB  LYS B 106     -13.848  18.689 -28.593  1.00 43.35      B
ATOM   5038  CG  LYS B 106     -12.559  18.458 -29.360  1.00 48.40      B
ATOM   5039  CD  LYS B 106     -12.182  16.980 -29.388  1.00 53.86      B
ATOM   5040  CE  LYS B 106     -10.972  16.731 -30.311  1.00 56.45      B
ATOM   5041  NZ  LYS B 106      -9.780  17.573 -29.937  1.00 56.83      B
ATOM   5042  C   LYS B 106     -13.109  20.205 -26.726  1.00 38.97      B
ATOM   5043  O   LYS B 106     -12.009  20.294 -26.173  1.00 37.11      B
ATOM   5044  N   ASP B 107     -13.844  21.270 -27.038  1.00 37.48      B
ATOM   5045  CA  ASP B 107     -13.375  22.622 -26.770  1.00 37.46      B
ATOM   5046  CB  ASP B 107     -14.278  23.633 -27.479  1.00 37.38      B
ATOM   5047  CG  ASP B 107     -14.303  23.431 -28.984  1.00 38.73      B
ATOM   5048  OD1 ASP B 107     -13.210  23.412 -29.598  1.00 39.58      B
ATOM   5049  OD2 ASP B 107     -15.409  23.286 -29.550  1.00 38.30      B
ATOM   5050  C   ASP B 107     -13.259  22.957 -25.279  1.00 38.16      B
ATOM   5051  O   ASP B 107     -12.438  23.796 -24.889  1.00 39.26      B
ATOM   5052  N   VAL B 108     -14.069  22.306 -24.446  1.00 36.70      B
ATOM   5053  CA  VAL B 108     -14.011  22.545 -23.011  1.00 34.84      B
ATOM   5054  CB  VAL B 108     -15.233  21.922 -22.278  1.00 34.66      B
ATOM   5055  CG1 VAL B 108     -15.041  21.987 -20.765  1.00 32.96      B
ATOM   5056  CG2 VAL B 108     -16.496  22.666 -22.655  1.00 33.23      B
ATOM   5057  C   VAL B 108     -12.722  21.946 -22.452  1.00 34.78      B
ATOM   5058  O   VAL B 108     -11.972  22.614 -21.738  1.00 34.85      B
ATOM   5059  N   ARG B 109     -12.452  20.691 -22.791  1.00 34.71      B
ATOM   5060  CA  ARG B 109     -11.246  20.035 -22.294  1.00 35.52      B
ATOM   5061  CB  ARG B 109     -11.171  18.590 -22.788  1.00 34.00      B
ATOM   5062  CG  ARG B 109     -12.357  17.738 -22.402  1.00 32.63      B
ATOM   5063  CD  ARG B 109     -12.226  16.309 -22.919  1.00 35.36      B
ATOM   5064  NE  ARG B 109     -11.166  15.565 -22.245  1.00 35.91      B
ATOM   5065  CZ  ARG B 109     -11.108  15.370 -20.932  1.00 37.85      B
ATOM   5066  NH1 ARG B 109     -12.050  15.860 -20.139  1.00 39.67      B
ATOM   5067  NH2 ARG B 109     -10.096  14.699 -20.405  1.00 39.48      B
ATOM   5068  C   ARG B 109      -9.985  20.784 -22.712  1.00 36.40      B
ATOM   5069  O   ARG B 109      -9.044  20.886 -21.930  1.00 37.52      B
ATOM   5070  N   ASN B 110      -9.967  21.312 -23.935  1.00 36.87      B
ATOM   5071  CA  ASN B 110      -8.800  22.049 -24.419  1.00 38.72      B
ATOM   5072  CB  ASN B 110      -8.693  21.950 -25.943  1.00 41.31      B
ATOM   5073  CG  ASN B 110      -8.360  20.541 -26.413  1.00 45.36      B
ATOM   5074  OD1 ASN B 110      -7.374  19.938 -25.963  1.00 47.58      B
ATOM   5075  ND2 ASN B 110      -9.176  20.008 -27.324  1.00 45.14      B
ATOM   5076  C   ASN B 110      -8.798  23.520 -24.007  1.00 38.21      B
ATOM   5077  O   ASN B 110      -7.989  24.307 -24.497  1.00 37.99      B
ATOM   5078  N   LEU B 111      -9.701  23.883 -23.104  1.00 36.54      B
ATOM   5079  CA  LEU B 111      -9.796  25.254 -22.620  1.00 34.98      B
ATOM   5080  CB  LEU B 111      -8.599  25.565 -21.714  1.00 35.04      B
ATOM   5081  CG  LEU B 111      -8.210  24.528 -20.652  1.00 36.25      B
ATOM   5082  CD1 LEU B 111      -7.238  25.172 -19.666  1.00 35.28      B
ATOM   5083  CD2 LEU B 111      -9.445  24.023 -19.912  1.00 36.53      B
ATOM   5084  C   LEU B 111      -9.867  26.292 -23.747  1.00 33.52      B
ATOM   5085  O   LEU B 111      -9.144  27.289 -23.723  1.00 32.20      B
ATOM   5086  N   SER B 112     -10.751  26.077 -24.717  1.00 32.36      B
ATOM   5087  CA  SER B 112     -10.863  27.009 -25.831  1.00 33.42      B
ATOM   5088  CB  SER B 112     -11.482  26.318 -27.046  1.00 32.17      B
ATOM   5089  OG  SER B 112     -12.895  26.337 -26.986  1.00 32.00      B
ATOM   5090  C   SER B 112     -11.675  28.254 -25.484  1.00 35.61      B
ATOM   5091  O   SER B 112     -12.908  28.232 -25.479  1.00 37.95      B
ATOM   5092  N   SER B 113     -10.967  29.343 -25.208  1.00 36.15      B
ATOM   5093  CA  SER B 113     -11.571  30.625 -24.849  1.00 37.97      B
ATOM   5094  CB  SER B 113     -10.919  31.752 -25.651  1.00 37.97      B
ATOM   5095  OG  SER B 113     -11.178  31.598 -27.029  1.00 40.79      B
ATOM   5096  C   SER B 113     -13.090  30.730 -24.985  1.00 38.02      B
ATOM   5097  O   SER B 113     -13.795  30.781 -23.977  1.00 39.50      B
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ATOM   5098  N   ARG B 114     -13.596  30.767 -26.216  1.00 37.69      B
ATOM   5099  CA  ARG B 114     -15.040  30.883 -26.426  1.00 38.12      B
ATOM   5100  CB  ARG B 114     -15.435  30.388 -27.815  1.00 35.36      B
ATOM   5101  CG  ARG B 114     -16.950  30.288 -27.998  1.00 36.93      B
ATOM   5102  CD  ARG B 114     -17.369  30.415 -29.455  1.00 37.09      B
ATOM   5103  NE  ARG B 114     -18.815  30.351 -29.634  1.00 37.55      B
ATOM   5104  CZ  ARG B 114     -19.468  30.920 -30.647  1.00 39.74      B
ATOM   5105  NH1 ARG B 114     -18.802  31.601 -31.569  1.00 39.37      B
ATOM   5106  NH2 ARG B 114     -20.789  30.807 -30.749  1.00 39.54      B
ATOM   5107  C   ARG B 114     -15.835  30.114 -25.374  1.00 39.60      B
ATOM   5108  O   ARG B 114     -16.846  30.608 -24.864  1.00 39.60      B
ATOM   5109  N   ALA B 115     -15.366  28.909 -25.056  1.00 39.72      B
ATOM   5110  CA  ALA B 115     -16.010  28.058 -24.065  1.00 39.27      B
ATOM   5111  CB  ALA B 115     -15.595  26.608 -24.278  1.00 39.55      B
ATOM   5112  C   ALA B 115     -15.651  28.497 -22.647  1.00 38.61      B
ATOM   5113  O   ALA B 115     -16.522  28.577 -21.774  1.00 38.06      B
ATOM   5114  N   VAL B 116     -14.369  28.769 -22.417  1.00 37.22      B
ATOM   5115  CA  VAL B 116     -13.926  29.199 -21.098  1.00 36.81      B
ATOM   5116  CB  VAL B 116     -12.410  29.406 -21.034  1.00 35.64      B
ATOM   5117  CG1 VAL B 116     -12.000  29.742 -19.610  1.00 34.83      B
ATOM   5118  CG2 VAL B 116     -11.700  28.167 -21.505  1.00 36.00      B
ATOM   5119  C   VAL B 116     -14.581  30.522 -20.754  1.00 37.22      B
ATOM   5120  O   VAL B 116     -15.062  30.730 -19.644  1.00 37.66      B
ATOM   5121  N   ASN B 117     -14.602  31.426 -21.716  1.00 37.47      B
ATOM   5122  CA  ASN B 117     -15.197  32.717 -21.468  1.00 38.32      B
ATOM   5123  CB  ASN B 117     -14.747  33.710 -22.546  1.00 40.83      B
ATOM   5124  CG  ASN B 117     -13.226  33.910 -22.553  1.00 41.85      B
ATOM   5125  OD1 ASN B 117     -12.630  34.335 -21.551  1.00 42.11      B
ATOM   5126  ND2 ASN B 117     -12.594  33.595 -23.682  1.00 41.57      B
ATOM   5127  C   ASN B 117     -16.715  32.611 -21.377  1.00 37.58      B
ATOM   5128  O   ASN B 117     -17.358  33.455 -20.755  1.00 39.64      B
ATOM   5129  N   HIS B 118     -17.300  31.580 -21.978  1.00 35.65      B
ATOM   5130  CA  HIS B 118     -18.745  31.421 -21.867  1.00 34.78      B
ATOM   5131  CB  HIS B 118     -19.319  30.477 -22.926  1.00 34.90      B
ATOM   5132  CG  HIS B 118     -20.772  30.170 -22.718  1.00 35.63      B
ATOM   5133  CD2 HIS B 118     -21.879  30.935 -22.889  1.00 35.80      B
ATOM   5134  ND1 HIS B 118     -21.213  28.974 -22.192  1.00 35.88      B
ATOM   5135  CE1 HIS B 118     -22.527  29.016 -22.046  1.00 35.43      B
ATOM   5136  NE2 HIS B 118     -22.955  30.195 -22.461  1.00 34.66      B
ATOM   5137  C   HIS B 118     -19.040  30.850 -20.492  1.00 34.73      B
ATOM   5138  O   HIS B 118     -20.007  31.246 -19.843  1.00 35.59      B
ATOM   5139  N   ILE B 119     -18.209  29.909 -20.053  1.00 33.06      B
ATOM   5140  CA  ILE B 119     -18.380  29.309 -18.739  1.00 31.47      B
ATOM   5141  CB  ILE B 119     -17.351  28.215 -18.486  1.00 29.95      B
ATOM   5142  CG2 ILE B 119     -17.387  27.815 -17.018  1.00 27.71      B
ATOM   5143  CG1 ILE B 119     -17.634  27.026 -19.413  1.00 29.32      B
ATOM   5144  CD1 ILE B 119     -16.511  26.034 -19.496  1.00 27.36      B
ATOM   5145  C   ILE B 119     -18.227  30.376 -17.670  1.00 31.91      B
ATOM   5146  O   ILE B 119     -19.056  30.466 -16.768  1.00 33.88      B
ATOM   5147  N   ARG B 120     -17.164  31.174 -17.762  1.00 31.22      B
ATOM   5148  CA  ARG B 120     -16.947  32.253 -16.805  1.00 30.11      B
ATOM   5149  CB  ARG B 120     -15.789  33.156 -17.235  1.00 33.89      B
ATOM   5150  CG  ARG B 120     -14.388  32.581 -17.153  1.00 40.57      B
ATOM   5151  CD  ARG B 120     -13.386  33.738 -17.014  1.00 44.87      B
ATOM   5152  NE  ARG B 120     -11.996  33.299 -16.924  1.00 49.07      B
ATOM   5153  CZ  ARG B 120     -11.180  33.182 -17.969  1.00 52.73      B
ATOM   5154  NH1 ARG B 120     -11.609  33.472 -19.195  1.00 53.89      B
ATOM   5155  NH2 ARG B 120      -9.928  32.781 -17.789  1.00 53.49      B
ATOM   5156  C   ARG B 120     -18.215  33.097 -16.812  1.00 28.34      B
ATOM   5157  O   ARG B 120     -18.641  33.621 -15.782  1.00 27.11      B
ATOM   5158  N   SER B 121     -18.795  33.223 -18.004  1.00 25.59      B
ATOM   5159  CA  SER B 121     -20.003  33.992 -18.236  1.00 23.58      B
ATOM   5160  CB  SER B 121     -20.308  34.022 -19.744  1.00 25.49      B
ATOM   5161  OG  SER B 121     -21.481  34.759 -20.061  1.00 29.10      B
ATOM   5162  C   SER B 121     -21.165  33.382 -17.470  1.00 22.60      B
ATOM   5163  O   SER B 121     -21.856  34.071 -16.721  1.00 21.97      B
ATOM   5164  N   VAL B 122     -21.374  32.082 -17.653  1.00 21.39      B
ATOM   5165  CA  VAL B 122     -22.464  31.393 -16.981  1.00 18.09      B
ATOM   5166  CB  VAL B 122     -22.531  29.906 -17.380  1.00 14.59      B
ATOM   5167  CG1 VAL B 122     -23.552  29.183 -16.532  1.00 12.51      B
ATOM   5168  CG2 VAL B 122     -22.915  29.783 -18.831  1.00 10.21      B
ATOM   5169  C   VAL B 122     -22.329  31.489 -15.481  1.00 19.39      B
ATOM   5170  O   VAL B 122     -23.334  31.517 -14.766  1.00 20.60      B
ATOM   5171  N   TRP B 123     -21.086  31.551 -15.007  1.00 20.44      B
ATOM   5172  CA  TRP B 123     -20.802  31.633 -13.571  1.00 20.42      B
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ATOM	5173	CB	TRP	B	123	-19.344	31.236	-13.310	1.00	20.13	B
ATOM	5174	CG	TRP	B	123	-18.924	31.320	-11.849	1.00	22.26	B
ATOM	5175	CD2	TRP	B	123	-18.945	30.264	-10.884	1.00	20.26	B
ATOM	5176	CE2	TRP	B	123	-18.454	30.795	-9.671	1.00	22.29	B
ATOM	5177	CE3	TRP	B	123	-19.330	28.921	-10.926	1.00	21.39	B
ATOM	5178	CD1	TRP	B	123	-18.437	32.420	-11.195	1.00	21.85	B
ATOM	5179	NE1	TRP	B	123	-18.152	32.112	-9.891	1.00	20.56	B
ATOM	5180	CZ2	TRP	B	123	-18.335	30.021	-8.501	1.00	24.67	B
ATOM	5181	CZ3	TRP	B	123	-19.212	28.146	-9.761	1.00	22.73	B
ATOM	5182	CH2	TRP	B	123	-18.718	28.702	-8.567	1.00	23.61	B
ATOM	5183	C	TRP	B	123	-21.117	33.000	-12.955	1.00	19.63	B
ATOM	5184	O	TRP	B	123	-21.711	33.080	-11.880	1.00	18.48	B
ATOM	5185	N	GLU	B	124	-20.717	34.073	-13.626	1.00	20.42	B
ATOM	5186	CA	GLU	B	124	-21.016	35.397	-13.122	1.00	21.19	B
ATOM	5187	CB	GLU	B	124	-20.503	36.477	-14.075	1.00	26.21	B
ATOM	5188	CG	GLU	B	124	-18.992	36.497	-14.301	1.00	33.79	B
ATOM	5189	CD	GLU	B	124	-18.202	36.438	-13.005	1.00	38.82	B
ATOM	5190	OE1	GLU	B	124	-18.571	37.162	-12.046	1.00	41.01	B
ATOM	5191	OE2	GLU	B	124	-17.205	35.670	-12.953	1.00	42.18	B
ATOM	5192	C	GLU	B	124	-22.538	35.481	-13.021	1.00	20.62	B
ATOM	5193	O	GLU	B	124	-23.070	36.098	-12.101	1.00	20.82	B
ATOM	5194	N	ASP	B	125	-23.237	34.844	-13.958	1.00	18.69	B
ATOM	5195	CA	ASP	B	125	-24.698	34.858	-13.955	1.00	17.87	B
ATOM	5196	CB	ASP	B	125	-25.248	34.181	-15.210	1.00	18.11	B
ATOM	5197	CG	ASP	B	125	-26.759	34.315	-15.327	1.00	18.38	B
ATOM	5198	OD1	ASP	B	125	-27.225	35.399	-15.713	1.00	19.85	B
ATOM	5199	OD2	ASP	B	125	-27.489	33.346	-15.020	1.00	17.26	B
ATOM	5200	C	ASP	B	125	-25.294	34.178	-12.722	1.00	18.71	B
ATOM	5201	O	ASP	B	125	-26.365	34.549	-12.263	1.00	20.08	B
ATOM	5202	N	LEU	B	126	-24.624	33.163	-12.196	1.00	18.89	B
ATOM	5203	CA	LEU	B	126	-25.137	32.501	-11.010	1.00	18.10	B
ATOM	5204	CB	LEU	B	126	-24.350	31.227	-10.731	1.00	17.06	B
ATOM	5205	CG	LEU	B	126	-24.629	30.095	-11.713	1.00	17.30	B
ATOM	5206	CD1	LEU	B	126	-23.790	28.884	-11.354	1.00	18.59	B
ATOM	5207	CD2	LEU	B	126	-26.116	29.755	-11.677	1.00	14.18	B
ATOM	5208	C	LEU	B	126	-25.030	33.445	-9.820	1.00	18.82	B
ATOM	5209	O	LEU	B	126	-25.820	33.368	-8.891	1.00	17.76	B
ATOM	5210	N	LEU	B	127	-24.052	34.343	-9.861	1.00	20.16	B
ATOM	5211	CA	LEU	B	127	-23.847	35.294	-8.779	1.00	21.92	B
ATOM	5212	CB	LEU	B	127	-22.370	35.695	-8.692	1.00	21.18	B
ATOM	5213	CG	LEU	B	127	-21.301	34.590	-8.721	1.00	22.83	B
ATOM	5214	CD1	LEU	B	127	-19.900	35.206	-8.684	1.00	18.95	B
ATOM	5215	CD2	LEU	B	127	-21.505	33.646	-7.548	1.00	22.94	B
ATOM	5216	C	LEU	B	127	-24.694	36.541	-8.990	1.00	23.26	B
ATOM	5217	O	LEU	B	127	-25.059	37.220	-8.031	1.00	24.25	B
ATOM	5218	N	GLU	B	128	-25.015	36.839	-10.243	1.00	23.80	B
ATOM	5219	CA	GLU	B	128	-25.796	38.026	-10.553	1.00	23.62	B
ATOM	5220	CB	GLU	B	128	-25.364	38.584	-11.906	1.00	24.43	B
ATOM	5221	CG	GLU	B	128	-23.985	39.213	-11.919	1.00	25.59	B
ATOM	5222	CD	GLU	B	128	-23.941	40.496	-11.137	1.00	28.52	B
ATOM	5223	OE1	GLU	B	128	-24.973	41.195	-11.085	1.00	31.60	B
ATOM	5224	OE2	GLU	B	128	-22.875	40.820	-10.583	1.00	31.09	B
ATOM	5225	C	GLU	B	128	-27.300	37.809	-10.555	1.00	24.09	B
ATOM	5226	O	GLU	B	128	-28.060	38.745	-10.305	1.00	26.52	B
ATOM	5227	N	ASP	B	129	-27.726	36.581	-10.840	1.00	24.11	B
ATOM	5228	CA	ASP	B	129	-29.147	36.229	-10.910	1.00	22.46	B
ATOM	5229	CB	ASP	B	129	-29.504	35.822	-12.342	1.00	22.05	B
ATOM	5230	CG	ASP	B	129	-30.999	35.679	-12.555	1.00	23.61	B
ATOM	5231	OD1	ASP	B	129	-31.698	35.150	-11.659	1.00	25.92	B
ATOM	5232	OD2	ASP	B	129	-31.480	36.086	-13.632	1.00	22.46	B
ATOM	5233	C	ASP	B	129	-29.471	35.073	-9.958	1.00	22.00	B
ATOM	5234	O	ASP	B	129	-28.911	33.980	-10.063	1.00	20.81	B
ATOM	5235	N	THR	B	130	-30.398	35.309	-9.040	1.00	20.99	B
ATOM	5236	CA	THR	B	130	-30.760	34.296	-8.065	1.00	21.00	B
ATOM	5237	CB	THR	B	130	-30.774	34.886	-6.642	1.00	20.41	B
ATOM	5238	OG1	THR	B	130	-31.694	35.983	-6.607	1.00	19.88	B
ATOM	5239	CG2	THR	B	130	-29.386	35.372	-6.220	1.00	16.94	B
ATOM	5240	C	THR	B	130	-32.132	33.686	-8.300	1.00	22.98	B
ATOM	5241	O	THR	B	130	-32.558	32.840	-7.520	1.00	24.88	B
ATOM	5242	N	GLU	B	131	-32.832	34.077	-9.360	1.00	23.17	B
ATOM	5243	CA	GLU	B	131	-34.166	33.527	-9.540	1.00	24.68	B
ATOM	5244	CB	GLU	B	131	-35.212	34.613	-9.295	1.00	27.45	B
ATOM	5245	CG	GLU	B	131	-34.974	35.468	-8.066	1.00	35.98	B
ATOM	5246	CD	GLU	B	131	-35.773	36.775	-8.107	1.00	40.16	B
ATOM	5247	OE1	GLU	B	131	-35.788	37.426	-9.184	1.00	42.18	B

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ATOM   5248  OE2 GLU B 131     -36.375  37.153  -7.068  1.00 39.93      B
ATOM   5249  C   GLU B 131     -34.491  32.855 -10.861  1.00 23.94      B
ATOM   5250  O   GLU B 131     -35.004  31.738 -10.877  1.00 25.81      B
ATOM   5251  N   THR B 132     -34.216  33.538 -11.964  1.00 21.89      B
ATOM   5252  CA  THR B 132     -34.543  33.017 -13.289  1.00 20.25      B
ATOM   5253  CB  THR B 132     -33.848  33.801 -14.403  1.00 17.61      B
ATOM   5254  OG1 THR B 132     -33.745  35.181 -14.031  1.00 17.88      B
ATOM   5255  CG2 THR B 132     -34.661  33.695 -15.678  1.00 12.77      B
ATOM   5256  C   THR B 132     -34.239  31.549 -13.526  1.00 21.20      B
ATOM   5257  O   THR B 132     -33.092  31.110 -13.396  1.00 22.45      B
ATOM   5258  N   PRO B 133     -35.274  30.768 -13.878  1.00 19.95      B
ATOM   5259  CD  PRO B 133     -36.705  31.113 -13.827  1.00 17.34      B
ATOM   5260  CA  PRO B 133     -35.101  29.340 -14.141  1.00 19.10      B
ATOM   5261  CB  PRO B 133     -36.509  28.891 -14.510  1.00 18.63      B
ATOM   5262  CG  PRO B 133     -37.353  29.758 -13.646  1.00 17.10      B
ATOM   5263  C   PRO B 133     -34.115  29.123 -15.276  1.00 18.79      B
ATOM   5264  O   PRO B 133     -34.070  29.896 -16.232  1.00 17.29      B
ATOM   5265  N   ILE B 134     -33.318  28.071 -15.152  1.00 19.03      B
ATOM   5266  CA  ILE B 134     -32.327  27.731 -16.160  1.00 19.71      B
ATOM   5267  CB  ILE B 134     -31.055  27.164 -15.485  1.00 20.61      B
ATOM   5268  CG2 ILE B 134     -30.196  26.431 -16.495  1.00 19.45      B
ATOM   5269  CG1 ILE B 134     -30.302  28.318 -14.799  1.00 22.58      B
ATOM   5270  CD1 ILE B 134     -29.198  27.902 -13.837  1.00 20.58      B
ATOM   5271  C   ILE B 134     -32.929  26.714 -17.115  1.00 19.69      B
ATOM   5272  O   ILE B 134     -33.637  25.802 -16.701  1.00 20.32      B
ATOM   5273  N   ASP B 135     -32.665  26.869 -18.402  1.00 20.28      B
ATOM   5274  CA  ASP B 135     -33.235  25.938 -19.356  1.00 21.47      B
ATOM   5275  CB  ASP B 135     -33.033  26.434 -20.795  1.00 23.35      B
ATOM   5276  CG  ASP B 135     -33.898  25.671 -21.795  1.00 29.12      B
ATOM   5277  OD1 ASP B 135     -34.919  25.084 -21.357  1.00 30.20      B
ATOM   5278  OD2 ASP B 135     -33.576  25.661 -23.009  1.00 30.84      B
ATOM   5279  C   ASP B 135     -32.664  24.537 -19.202  1.00 20.18      B
ATOM   5280  O   ASP B 135     -31.554  24.360 -18.698  1.00 19.94      B
ATOM   5281  N   THR B 136     -33.466  23.552 -19.606  1.00 19.91      B
ATOM   5282  CA  THR B 136     -33.096  22.133 -19.580  1.00 18.57      B
ATOM   5283  CB  THR B 136     -33.608  21.384 -18.324  1.00 14.86      B
ATOM   5284  OG1 THR B 136     -35.018  21.576 -18.196  1.00 13.45      B
ATOM   5285  CG2 THR B 136     -32.893  21.856 -17.075  1.00 14.33      B
ATOM   5286  C   THR B 136     -33.676  21.421 -20.804  1.00 19.76      B
ATOM   5287  O   THR B 136     -34.744  21.776 -21.320  1.00 19.13      B
ATOM   5288  N   THR B 137     -32.948  20.413 -21.259  1.00 20.66      B
ATOM   5289  CA  THR B 137     -33.336  19.622 -22.409  1.00 20.93      B
ATOM   5290  CB  THR B 137     -32.122  19.362 -23.333  1.00 20.28      B
ATOM   5291  OG1 THR B 137     -31.737  20.584 -23.972  1.00 16.31      B
ATOM   5292  CG2 THR B 137     -32.461  18.313 -24.387  1.00 18.83      B
ATOM   5293  C   THR B 137     -33.845  18.290 -21.902  1.00 23.09      B
ATOM   5294  O   THR B 137     -33.193  17.653 -21.070  1.00 22.58      B
ATOM   5295  N   ILE B 138     -35.014  17.881 -22.382  1.00 25.15      B
ATOM   5296  CA  ILE B 138     -35.576  16.602 -21.983  1.00 28.09      B
ATOM   5297  CB  ILE B 138     -37.054  16.736 -21.531  1.00 26.41      B
ATOM   5298  CG2 ILE B 138     -37.864  17.409 -22.594  1.00 26.14      B
ATOM   5299  CG1 ILE B 138     -37.629  15.353 -21.209  1.00 26.64      B
ATOM   5300  CD1 ILE B 138     -38.978  15.389 -20.515  1.00 27.75      B
ATOM   5301  C   ILE B 138     -35.472  15.688 -23.189  1.00 29.97      B
ATOM   5302  O   ILE B 138     -35.634  16.131 -24.314  1.00 31.27      B
ATOM   5303  N   MET B 139     -35.172  14.418 -22.963  1.00 33.68      B
ATOM   5304  CA  MET B 139     -35.046  13.481 -24.069  1.00 37.12      B
ATOM   5305  CB  MET B 139     -33.600  13.418 -24.564  1.00 38.52      B
ATOM   5306  CG  MET B 139     -33.051  14.713 -25.108  1.00 41.87      B
ATOM   5307  SD  MET B 139     -32.421  14.473 -26.783  1.00 48.40      B
ATOM   5308  CE  MET B 139     -31.113  13.199 -26.447  1.00 46.56      B
ATOM   5309  C   MET B 139     -35.457  12.094 -23.633  1.00 38.13      B
ATOM   5310  O   MET B 139     -35.459  11.787 -22.443  1.00 37.58      B
ATOM   5311  N   ALA B 140     -35.813  11.260 -24.601  1.00 39.79      B
ATOM   5312  CA  ALA B 140     -36.179   9.887 -24.302  1.00 40.58      B
ATOM   5313  CB  ALA B 140     -37.089   9.340 -25.378  1.00 38.74      B
ATOM   5314  C   ALA B 140     -34.839   9.176 -24.319  1.00 41.38      B
ATOM   5315  O   ALA B 140     -34.109   9.274 -25.300  1.00 41.74      B
ATOM   5316  N   LYS B 141     -34.500   8.482 -23.239  1.00 43.66      B
ATOM   5317  CA  LYS B 141     -33.214   7.795 -23.181  1.00 47.34      B
ATOM   5318  CB  LYS B 141     -32.863   7.423 -21.740  1.00 47.41      B
ATOM   5319  CG  LYS B 141     -31.475   6.840 -21.608  1.00 49.27      B
ATOM   5320  CD  LYS B 141     -31.262   6.144 -20.265  1.00 52.61      B
ATOM   5321  CE  LYS B 141     -31.041   7.119 -19.104  1.00 52.68      B
ATOM   5322  NZ  LYS B 141     -30.773   6.378 -17.833  1.00 50.97      B
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ATOM   5323  C   LYS B 141     -33.207   6.537 -24.035  1.00 48.91      B
ATOM   5324  O   LYS B 141     -34.260   5.991 -24.350  1.00 49.74      B
ATOM   5325  N   SER B 142     -32.016   6.076 -24.404  1.00 51.38      B
ATOM   5326  CA  SER B 142     -31.879   4.871 -25.219  1.00 53.48      B
ATOM   5327  CB  SER B 142     -31.018   5.162 -26.454  1.00 55.00      B
ATOM   5328  OG  SER B 142     -30.880   4.008 -27.271  1.00 57.04      B
ATOM   5329  C   SER B 142     -31.255   3.729 -24.422  1.00 53.98      B
ATOM   5330  O   SER B 142     -30.069   3.758 -24.100  1.00 52.01      B
ATOM   5331  N   GLU B 143     -32.069   2.727 -24.106  1.00 56.30      B
ATOM   5332  CA  GLU B 143     -31.613   1.561 -23.355  1.00 58.28      B
ATOM   5333  CB  GLU B 143     -32.144   1.612 -21.923  1.00 58.62      B
ATOM   5334  CG  GLU B 143     -31.742   2.872 -21.179  1.00 59.54      B
ATOM   5335  CD  GLU B 143     -31.866   2.747 -19.670  1.00 59.80      B
ATOM   5336  OE1 GLU B 143     -32.983   2.482 -19.166  1.00 59.61      B
ATOM   5337  OE2 GLU B 143     -30.833   2.925 -18.990  1.00 60.17      B
ATOM   5338  C   GLU B 143     -32.074   0.274 -24.029  1.00 59.73      B
ATOM   5339  O   GLU B 143     -33.150   0.228 -24.630  1.00 59.94      B
ATOM   5340  N   VAL B 144     -31.254  -0.768 -23.924  1.00 61.54      B
ATOM   5341  CA  VAL B 144     -31.565  -2.061 -24.535  1.00 63.19      B
ATOM   5342  CB  VAL B 144     -30.335  -2.616 -25.282  1.00 62.38      B
ATOM   5343  CG1 VAL B 144     -30.643  -3.990 -25.833  1.00 62.08      B
ATOM   5344  CG2 VAL B 144     -29.936  -1.663 -26.403  1.00 61.96      B
ATOM   5345  C   VAL B 144     -32.060  -3.100 -23.524  1.00 64.36      B
ATOM   5346  O   VAL B 144     -31.429  -3.325 -22.491  1.00 63.29      B
ATOM   5347  N   PHE B 145     -33.194  -3.727 -23.840  1.00 66.57      B
ATOM   5348  CA  PHE B 145     -33.803  -4.740 -22.972  1.00 68.60      B
ATOM   5349  CB  PHE B 145     -34.986  -4.141 -22.192  1.00 67.54      B
ATOM   5350  CG  PHE B 145     -34.587  -3.097 -21.186  1.00 67.89      B
ATOM   5351  CD1 PHE B 145     -33.763  -3.424 -20.114  1.00 68.05      B
ATOM   5352  CD2 PHE B 145     -35.021  -1.779 -21.317  1.00 68.45      B
ATOM   5353  CE1 PHE B 145     -33.369  -2.450 -19.181  1.00 67.58      B
ATOM   5354  CE2 PHE B 145     -34.635  -0.796 -20.391  1.00 68.63      B
ATOM   5355  CZ  PHE B 145     -33.806  -1.134 -19.321  1.00 67.71      B
ATOM   5356  C   PHE B 145     -34.289  -5.961 -23.755  1.00 70.05      B
ATOM   5357  O   PHE B 145     -34.099  -6.060 -24.972  1.00 69.21      B
ATOM   5358  N   CYS B 146     -34.919  -6.886 -23.032  1.00 71.90      B
ATOM   5359  CA  CYS B 146     -35.456  -8.115 -23.607  1.00 73.93      B
ATOM   5360  CB  CYS B 146     -34.684  -9.326 -23.074  1.00 74.26      B
ATOM   5361  SG  CYS B 146     -35.146 -10.907 -23.831  1.00 75.43      B
ATOM   5362  C   CYS B 146     -36.939  -8.236 -23.254  1.00 75.37      B
ATOM   5363  O   CYS B 146     -37.318  -8.149 -22.084  1.00 75.25      B
ATOM   5364  N   VAL B 147     -37.764  -8.444 -24.277  1.00 77.11      B
ATOM   5365  CA  VAL B 147     -39.210  -8.548 -24.110  1.00 78.44      B
ATOM   5366  CB  VAL B 147     -39.927  -8.734 -25.488  1.00 77.71      B
ATOM   5367  CG1 VAL B 147     -39.258  -7.870 -26.543  1.00 77.21      B
ATOM   5368  CG2 VAL B 147     -39.915 -10.198 -25.915  1.00 76.79      B
ATOM   5369  C   VAL B 147     -39.644  -9.685 -23.186  1.00 79.91      B
ATOM   5370  O   VAL B 147     -39.101 -10.787 -23.240  1.00 80.46      B
ATOM   5371  N   GLN B 148     -40.614  -9.408 -22.319  1.00 81.30      B
ATOM   5372  CA  GLN B 148     -41.152 -10.418 -21.407  1.00 82.55      B
ATOM   5373  CB  GLN B 148     -41.516  -9.781 -20.059  1.00 83.10      B
ATOM   5374  CG  GLN B 148     -42.415 -10.656 -19.200  1.00 85.08      B
ATOM   5375  CD  GLN B 148     -42.637 -10.090 -17.812  1.00 86.57      B
ATOM   5376  OE1 GLN B 148     -42.704  -8.869 -17.628  1.00 87.09      B
ATOM   5377  NE2 GLN B 148     -42.771 -10.974 -16.825  1.00 86.79      B
ATOM   5378  C   GLN B 148     -42.394 -11.086 -22.031  1.00 82.83      B
ATOM   5379  O   GLN B 148     -42.296 -12.265 -22.442  1.00 82.28      B
ATOM   5380  OXT GLN B 148     -43.450 -10.418 -22.120  1.00 83.43      B
ATOM   5381  C   GLY B 153     -43.550  -5.654 -21.797  1.00 66.26      B
ATOM   5382  O   GLY B 153     -42.596  -6.427 -21.905  1.00 66.14      B
ATOM   5383  N   GLY B 153     -44.930  -7.597 -20.945  1.00 67.21      B
ATOM   5384  CA  GLY B 153     -44.891  -6.130 -21.256  1.00 66.70      B
ATOM   5385  N   ARG B 154     -43.481  -4.371 -22.139  1.00 65.84      B
ATOM   5386  CA  ARG B 154     -42.262  -3.766 -22.675  1.00 65.48      B
ATOM   5387  CB  ARG B 154     -42.357  -3.660 -24.197  1.00 66.09      B
ATOM   5388  CG  ARG B 154     -41.228  -2.887 -24.838  1.00 67.15      B
ATOM   5389  CD  ARG B 154     -41.300  -2.988 -26.350  1.00 68.70      B
ATOM   5390  NE  ARG B 154     -40.952  -4.324 -26.826  1.00 69.84      B
ATOM   5391  CZ  ARG B 154     -40.936  -4.678 -28.107  1.00 70.58      B
ATOM   5392  NH1 ARG B 154     -41.252  -3.792 -29.045  1.00 70.99      B
ATOM   5393  NH2 ARG B 154     -40.596  -5.916 -28.448  1.00 70.79      B
ATOM   5394  C   ARG B 154     -42.087  -2.379 -22.063  1.00 64.16      B
ATOM   5395  O   ARG B 154     -42.971  -1.532 -22.179  1.00 65.49      B
ATOM   5396  N   LYS B 155     -40.943  -2.138 -21.429  1.00 61.43      B
ATOM   5397  CA  LYS B 155     -40.712  -0.857 -20.769  1.00 58.86      B
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ATOM   5398  CB  LYS B 155     -39.634  -1.010 -19.693  1.00 59.42      B
ATOM   5399  CG  LYS B 155     -38.326  -1.630 -20.162  1.00 58.85      B
ATOM   5400  CD  LYS B 155     -37.476  -2.043 -18.955  1.00 58.25      B
ATOM   5401  CE  LYS B 155     -38.224  -3.033 -18.055  1.00 56.89      B
ATOM   5402  NZ  LYS B 155     -37.403  -3.498 -16.911  1.00 55.27      B
ATOM   5403  C   LYS B 155     -40.391   0.344 -21.648  1.00 56.97      B
ATOM   5404  O   LYS B 155     -39.587   0.256 -22.576  1.00 56.93      B
ATOM   5405  N   PRO B 156     -41.036   1.490 -21.361  1.00 54.85      B
ATOM   5406  CD  PRO B 156     -42.048   1.659 -20.299  1.00 54.22      B
ATOM   5407  CA  PRO B 156     -40.849   2.742 -22.097  1.00 52.43      B
ATOM   5408  CB  PRO B 156     -42.060   3.569 -21.684  1.00 52.61      B
ATOM   5409  CG  PRO B 156     -42.229   3.170 -20.249  1.00 53.43      B
ATOM   5410  C   PRO B 156     -39.538   3.386 -21.672  1.00 50.44      B
ATOM   5411  O   PRO B 156     -39.022   3.106 -20.589  1.00 49.49      B
ATOM   5412  N   ALA B 157     -39.008   4.250 -22.527  1.00 48.15      B
ATOM   5413  CA  ALA B 157     -37.753   4.918 -22.245  1.00 45.54      B
ATOM   5414  CB  ALA B 157     -37.344   5.773 -23.426  1.00 44.84      B
ATOM   5415  C   ALA B 157     -37.875   5.780 -21.014  1.00 43.96      B
ATOM   5416  O   ALA B 157     -38.961   6.248 -20.681  1.00 44.16      B
ATOM   5417  N   ARG B 158     -36.756   5.967 -20.327  1.00 42.63      B
ATOM   5418  CA  ARG B 158     -36.729   6.830 -19.159  1.00 40.97      B
ATOM   5419  CB  ARG B 158     -35.584   6.445 -18.213  1.00 41.89      B
ATOM   5420  CG  ARG B 158     -35.806   5.120 -17.482  1.00 44.89      B
ATOM   5421  CD  ARG B 158     -35.151   5.092 -16.099  1.00 48.00      B
ATOM   5422  NE  ARG B 158     -35.908   4.257 -15.157  1.00 53.54      B
ATOM   5423  CZ  ARG B 158     -36.170   4.597 -13.891  1.00 56.32      B
ATOM   5424  NH1 ARG B 158     -36.863   3.782 -13.100  1.00 55.72      B
ATOM   5425  NH2 ARG B 158     -35.739   5.761 -13.414  1.00 58.30      B
ATOM   5426  C   ARG B 158     -36.510   8.236 -19.717  1.00 39.30      B
ATOM   5427  O   ARG B 158     -36.073   8.398 -20.857  1.00 40.08      B
ATOM   5428  N   LEU B 159     -36.828   9.255 -18.934  1.00 36.65      B
ATOM   5429  CA  LEU B 159     -36.647  10.618 -19.404  1.00 34.09      B
ATOM   5430  CB  LEU B 159     -37.855  11.469 -19.020  1.00 34.00      B
ATOM   5431  CG  LEU B 159     -39.206  10.865 -19.426  1.00 35.92      B
ATOM   5432  CD1 LEU B 159     -40.326  11.789 -18.985  1.00 35.85      B
ATOM   5433  CD2 LEU B 159     -39.257  10.630 -20.935  1.00 33.47      B
ATOM   5434  C   LEU B 159     -35.390  11.217 -18.803  1.00 32.39      B
ATOM   5435  O   LEU B 159     -35.083  10.994 -17.637  1.00 33.19      B
ATOM   5436  N   ILE B 160     -34.636  11.957 -19.600  1.00 30.75      B
ATOM   5437  CA  ILE B 160     -33.441  12.587 -19.072  1.00 29.74      B
ATOM   5438  CB  ILE B 160     -32.173  12.083 -19.772  1.00 30.65      B
ATOM   5439  CG2 ILE B 160     -31.989  10.599 -19.488  1.00 31.09      B
ATOM   5440  CG1 ILE B 160     -32.275  12.324 -21.274  1.00 31.77      B
ATOM   5441  CD1 ILE B 160     -31.056  11.868 -22.035  1.00 33.91      B
ATOM   5442  C   ILE B 160     -33.576  14.089 -19.244  1.00 28.55      B
ATOM   5443  O   ILE B 160     -33.916  14.575 -20.323  1.00 27.68      B
ATOM   5444  N   VAL B 161     -33.341  14.814 -18.157  1.00 27.13      B
ATOM   5445  CA  VAL B 161     -33.435  16.267 -18.154  1.00 26.11      B
ATOM   5446  CB  VAL B 161     -34.478  16.727 -17.110  1.00 26.01      B
ATOM   5447  CG1 VAL B 161     -34.494  18.244 -16.999  1.00 24.02      B
ATOM   5448  CG2 VAL B 161     -35.853  16.197 -17.502  1.00 22.84      B
ATOM   5449  C   VAL B 161     -32.059  16.816 -17.803  1.00 25.53      B
ATOM   5450  O   VAL B 161     -31.492  16.470 -16.766  1.00 26.31      B
ATOM   5451  N   PHE B 162     -31.508  17.657 -18.665  1.00 24.12      B
ATOM   5452  CA  PHE B 162     -30.183  18.191 -18.391  1.00 24.80      B
ATOM   5453  CB  PHE B 162     -29.126  17.263 -19.005  1.00 25.35      B
ATOM   5454  CG  PHE B 162     -29.145  17.240 -20.504  1.00 25.50      B
ATOM   5455  CD1 PHE B 162     -30.098  16.492 -21.193  1.00 28.29      B
ATOM   5456  CD2 PHE B 162     -28.247  18.013 -21.233  1.00 23.95      B
ATOM   5457  CE1 PHE B 162     -30.159  16.520 -22.593  1.00 26.60      B
ATOM   5458  CE2 PHE B 162     -28.299  18.049 -22.621  1.00 24.80      B
ATOM   5459  CZ  PHE B 162     -29.257  17.302 -23.302  1.00 25.92      B
ATOM   5460  C   PHE B 162     -29.971  19.631 -18.892  1.00 23.35      B
ATOM   5461  O   PHE B 162     -30.546  20.039 -19.906  1.00 24.26      B
ATOM   5462  N   PRO B 163     -29.142  20.418 -18.176  1.00 20.01      B
ATOM   5463  CD  PRO B 163     -28.505  20.110 -16.883  1.00 19.21      B
ATOM   5464  CA  PRO B 163     -28.866  21.797 -18.559  1.00 17.37      B
ATOM   5465  CB  PRO B 163     -28.530  22.441 -17.233  1.00 16.01      B
ATOM   5466  CG  PRO B 163     -27.727  21.374 -16.585  1.00 16.57      B
ATOM   5467  C   PRO B 163     -27.707  21.849 -19.548  1.00 17.34      B
ATOM   5468  O   PRO B 163     -27.001  20.851 -19.748  1.00 16.05      B
ATOM   5469  N   ASP B 164     -27.523  23.017 -20.157  1.00 17.74      B
ATOM   5470  CA  ASP B 164     -26.469  23.242 -21.134  1.00 16.04      B
ATOM   5471  CB  ASP B 164     -26.534  24.681 -21.635  1.00 14.81      B
ATOM   5472  CG  ASP B 164     -25.684  24.910 -22.866  1.00 18.32      B
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ATOM	5473	OD1	ASP	B	164	-26.120	24.559	-23.986	1.00	19.54	B
ATOM	5474	OD2	ASP	B	164	-24.565	25.440	-22.719	1.00	21.33	B
ATOM	5475	C	ASP	B	164	-25.076	22.965	-20.552	1.00	17.90	B
ATOM	5476	O	ASP	B	164	-24.858	23.041	-19.333	1.00	14.62	B
ATOM	5477	N	LEU	B	165	-24.150	22.639	-21.452	1.00	19.75	B
ATOM	5478	CA	LEU	B	165	-22.768	22.339	-21.122	1.00	19.73	B
ATOM	5479	CB	LEU	B	165	-21.963	22.276	-22.419	1.00	20.30	B
ATOM	5480	CG	LEU	B	165	-20.476	21.949	-22.321	1.00	21.32	B
ATOM	5481	CD1	LEU	B	165	-20.268	20.677	-21.528	1.00	20.22	B
ATOM	5482	CD2	LEU	B	165	-19.915	21.799	-23.712	1.00	22.12	B
ATOM	5483	C	LEU	B	165	-22.176	23.387	-20.176	1.00	20.10	B
ATOM	5484	O	LEU	B	165	-21.595	23.051	-19.136	1.00	18.78	B
ATOM	5485	N	GLY	B	166	-22.323	24.655	-20.543	1.00	19.63	B
ATOM	5486	CA	GLY	B	166	-21.796	25.723	-19.714	1.00	21.44	B
ATOM	5487	C	GLY	B	166	-22.185	25.579	-18.254	1.00	21.12	B
ATOM	5488	O	GLY	B	166	-21.338	25.642	-17.369	1.00	22.71	B
ATOM	5489	N	VAL	B	167	-23.473	25.398	-17.999	1.00	21.67	B
ATOM	5490	CA	VAL	B	167	-23.968	25.238	-16.638	1.00	21.73	B
ATOM	5491	CB	VAL	B	167	-25.517	25.117	-16.625	1.00	22.62	B
ATOM	5492	CG1	VAL	B	167	-26.011	24.732	-15.227	1.00	21.35	B
ATOM	5493	CG2	VAL	B	167	-26.145	26.432	-17.068	1.00	21.41	B
ATOM	5494	C	VAL	B	167	-23.378	23.982	-16.000	1.00	22.00	B
ATOM	5495	O	VAL	B	167	-22.981	23.993	-14.831	1.00	22.57	B
ATOM	5496	N	ARG	B	168	-23.333	22.899	-16.774	1.00	21.24	B
ATOM	5497	CA	ARG	B	168	-22.813	21.637	-16.287	1.00	20.12	B
ATOM	5498	CB	ARG	B	168	-22.839	20.573	-17.393	1.00	20.89	B
ATOM	5499	CG	ARG	B	168	-24.238	20.140	-17.855	1.00	20.25	B
ATOM	5500	CD	ARG	B	168	-24.227	18.759	-18.529	1.00	16.92	B
ATOM	5501	NE	ARG	B	168	-23.427	18.693	-19.751	1.00	20.69	B
ATOM	5502	CZ	ARG	B	168	-23.819	19.127	-20.953	1.00	23.69	B
ATOM	5503	NH1	ARG	B	168	-25.019	19.673	-21.132	1.00	22.83	B
ATOM	5504	NH2	ARG	B	168	-23.009	19.005	-21.994	1.00	21.32	B
ATOM	5505	C	ARG	B	168	-21.402	21.795	-15.753	1.00	21.57	B
ATOM	5506	O	ARG	B	168	-21.040	21.175	-14.750	1.00	21.28	B
ATOM	5507	N	VAL	B	169	-20.595	22.621	-16.409	1.00	21.71	B
ATOM	5508	CA	VAL	B	169	-19.230	22.816	-15.936	1.00	22.68	B
ATOM	5509	CB	VAL	B	169	-18.350	23.541	-16.994	1.00	22.41	B
ATOM	5510	CG1	VAL	B	169	-16.939	23.732	-16.460	1.00	20.87	B
ATOM	5511	CG2	VAL	B	169	-18.298	22.725	-18.285	1.00	20.68	B
ATOM	5512	C	VAL	B	169	-19.246	23.630	-14.641	1.00	24.45	B
ATOM	5513	O	VAL	B	169	-18.508	23.331	-13.698	1.00	25.41	B
ATOM	5514	N	CYS	B	170	-20.093	24.653	-14.576	1.00	24.64	B
ATOM	5515	CA	CYS	B	170	-20.149	25.467	-13.368	1.00	24.28	B
ATOM	5516	CB	CYS	B	170	-21.062	26.666	-13.580	1.00	23.67	B
ATOM	5517	SG	CYS	B	170	-20.388	27.839	-14.776	1.00	25.50	B
ATOM	5518	C	CYS	B	170	-20.592	24.669	-12.158	1.00	24.37	B
ATOM	5519	O	CYS	B	170	-20.152	24.931	-11.045	1.00	25.21	B
ATOM	5520	N	GLU	B	171	-21.458	23.687	-12.370	1.00	24.94	B
ATOM	5521	CA	GLU	B	171	-21.917	22.853	-11.266	1.00	25.39	B
ATOM	5522	CB	GLU	B	171	-22.896	21.794	-11.745	1.00	27.25	B
ATOM	5523	CG	GLU	B	171	-24.155	22.267	-12.418	1.00	28.03	B
ATOM	5524	CD	GLU	B	171	-25.066	21.088	-12.706	1.00	29.13	B
ATOM	5525	OE1	GLU	B	171	-25.700	20.584	-11.755	1.00	29.71	B
ATOM	5526	OE2	GLU	B	171	-25.129	20.643	-13.873	1.00	28.59	B
ATOM	5527	C	GLU	B	171	-20.722	22.122	-10.673	1.00	25.78	B
ATOM	5528	O	GLU	B	171	-20.658	21.882	-9.468	1.00	25.23	B
ATOM	5529	N	LYS	B	172	-19.784	21.746	-11.539	1.00	26.83	B
ATOM	5530	CA	LYS	B	172	-18.587	21.032	-11.107	1.00	27.54	B
ATOM	5531	CB	LYS	B	172	-17.773	20.534	-12.308	1.00	28.00	B
ATOM	5532	CG	LYS	B	172	-18.416	19.414	-13.115	1.00	30.51	B
ATOM	5533	CD	LYS	B	172	-17.511	18.988	-14.273	1.00	32.25	B
ATOM	5534	CE	LYS	B	172	-18.124	17.873	-15.122	1.00	32.06	B
ATOM	5535	NZ	LYS	B	172	-19.217	18.373	-16.001	1.00	35.83	B
ATOM	5536	C	LYS	B	172	-17.713	21.931	-10.247	1.00	27.87	B
ATOM	5537	O	LYS	B	172	-17.202	21.503	-9.209	1.00	29.34	B
ATOM	5538	N	MET	B	173	-17.544	23.179	-10.672	1.00	26.93	B
ATOM	5539	CA	MET	B	173	-16.715	24.108	-9.919	1.00	26.03	B
ATOM	5540	CB	MET	B	173	-16.610	25.453	-10.639	1.00	25.64	B
ATOM	5541	CG	MET	B	173	-15.895	25.372	-11.975	1.00	26.83	B
ATOM	5542	SD	MET	B	173	-15.637	26.965	-12.777	1.00	31.13	B
ATOM	5543	CE	MET	B	173	-17.207	27.219	-13.558	1.00	28.21	B
ATOM	5544	C	MET	B	173	-17.261	24.326	-8.528	1.00	25.37	B
ATOM	5545	O	MET	B	173	-16.509	24.347	-7.549	1.00	25.31	B
ATOM	5546	N	ALA	B	174	-18.576	24.459	-8.433	1.00	24.41	B
ATOM	5547	CA	ALA	B	174	-19.201	24.718	-7.146	1.00	23.26	B

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ATOM   5548  CB  ALA B 174     -20.387  25.643  -7.348  1.00 21.85      B
ATOM   5549  C   ALA B 174     -19.625  23.509  -6.308  1.00 23.27      B
ATOM   5550  O   ALA B 174     -19.708  23.618  -5.087  1.00 23.92      B
ATOM   5551  N   LEU B 175     -19.883  22.359  -6.926  1.00 21.07      B
ATOM   5552  CA  LEU B 175     -20.339  21.224  -6.129  1.00 21.17      B
ATOM   5553  CB  LEU B 175     -21.846  21.039  -6.329  1.00 16.83      B
ATOM   5554  CG  LEU B 175     -22.786  22.064  -5.701  1.00 16.50      B
ATOM   5555  CD1 LEU B 175     -24.069  22.153  -6.511  1.00 14.62      B
ATOM   5556  CD2 LEU B 175     -23.064  21.674  -4.256  1.00 15.23      B
ATOM   5557  C   LEU B 175     -19.645  19.873  -6.316  1.00 22.65      B
ATOM   5558  O   LEU B 175     -20.034  18.896  -5.666  1.00 20.12      B
ATOM   5559  N   TYR B 176     -18.636  19.805  -7.185  1.00 22.92      B
ATOM   5560  CA  TYR B 176     -17.947  18.544  -7.402  1.00 23.87      B
ATOM   5561  CB  TYR B 176     -16.848  18.672  -8.453  1.00 24.76      B
ATOM   5562  CG  TYR B 176     -16.137  17.354  -8.677  1.00 27.26      B
ATOM   5563  CD1 TYR B 176     -16.807  16.260  -9.239  1.00 27.46      B
ATOM   5564  CE1 TYR B 176     -16.189  15.017  -9.356  1.00 27.58      B
ATOM   5565  CD2 TYR B 176     -14.828  17.168  -8.247  1.00 26.97      B
ATOM   5566  CE2 TYR B 176     -14.206  15.929  -8.361  1.00 27.41      B
ATOM   5567  CZ  TYR B 176     -14.889  14.863  -8.910  1.00 27.80      B
ATOM   5568  OH  TYR B 176     -14.271  13.640  -8.985  1.00 30.75      B
ATOM   5569  C   TYR B 176     -17.327  18.028  -6.116  1.00 24.46      B
ATOM   5570  O   TYR B 176     -17.532  16.875  -5.735  1.00 24.67      B
ATOM   5571  N   ASP B 177     -16.555  18.875  -5.449  1.00 25.12      B
ATOM   5572  CA  ASP B 177     -15.926  18.473  -4.202  1.00 25.18      B
ATOM   5573  CB  ASP B 177     -15.153  19.639  -3.601  1.00 27.06      B
ATOM   5574  CG  ASP B 177     -14.101  19.190  -2.616  1.00 28.94      B
ATOM   5575  OD1 ASP B 177     -14.025  17.971  -2.353  1.00 30.00      B
ATOM   5576  OD2 ASP B 177     -13.346  20.055  -2.108  1.00 30.18      B
ATOM   5577  C   ASP B 177     -17.025  18.031  -3.247  1.00 23.50      B
ATOM   5578  O   ASP B 177     -16.955  16.962  -2.657  1.00 23.15      B
ATOM   5579  N   VAL B 178     -18.059  18.848  -3.120  1.00 24.26      B
ATOM   5580  CA  VAL B 178     -19.157  18.518  -2.227  1.00 25.20      B
ATOM   5581  CB  VAL B 178     -20.301  19.541  -2.326  1.00 24.09      B
ATOM   5582  CG1 VAL B 178     -21.314  19.268  -1.236  1.00 22.00      B
ATOM   5583  CG2 VAL B 178     -19.757  20.958  -2.202  1.00 24.11      B
ATOM   5584  C   VAL B 178     -19.738  17.130  -2.484  1.00 27.82      B
ATOM   5585  O   VAL B 178     -19.755  16.296  -1.571  1.00 29.73      B
ATOM   5586  N   VAL B 179     -20.213  16.872  -3.708  1.00 27.78      B
ATOM   5587  CA  VAL B 179     -20.808  15.571  -4.031  1.00 26.64      B
ATOM   5588  CB  VAL B 179     -21.462  15.574  -5.425  1.00 26.91      B
ATOM   5589  CG1 VAL B 179     -22.464  16.705  -5.520  1.00 25.38      B
ATOM   5590  CG2 VAL B 179     -20.394  15.674  -6.517  1.00 26.75      B
ATOM   5591  C   VAL B 179     -19.852  14.376  -3.956  1.00 27.49      B
ATOM   5592  O   VAL B 179     -20.290  13.226  -3.982  1.00 29.57      B
ATOM   5593  N   SER B 180     -18.556  14.642  -3.850  1.00 26.99      B
ATOM   5594  CA  SER B 180     -17.565  13.578  -3.767  1.00 27.55      B
ATOM   5595  CB  SER B 180     -16.303  13.954  -4.541  1.00 25.84      B
ATOM   5596  OG  SER B 180     -16.582  14.133  -5.911  1.00 25.76      B
ATOM   5597  C   SER B 180     -17.162  13.303  -2.335  1.00 29.14      B
ATOM   5598  O   SER B 180     -16.592  12.250  -2.037  1.00 31.93      B
ATOM   5599  N   THR B 181     -17.460  14.241  -1.443  1.00 29.19      B
ATOM   5600  CA  THR B 181     -17.064  14.097  -0.046  1.00 28.69      B
ATOM   5601  CB  THR B 181     -16.144  15.267   0.366  1.00 29.09      B
ATOM   5602  OG1 THR B 181     -14.963  15.251  -0.439  1.00 28.37      B
ATOM   5603  CG2 THR B 181     -15.738  15.144   1.820  1.00 31.71      B
ATOM   5604  C   THR B 181     -18.174  14.006   0.996  1.00 27.95      B
ATOM   5605  O   THR B 181     -18.118  13.183   1.898  1.00 29.76      B
ATOM   5606  N   LEU B 182     -19.173  14.865   0.880  1.00 26.54      B
ATOM   5607  CA  LEU B 182     -20.251  14.905   1.849  1.00 23.31      B
ATOM   5608  CB  LEU B 182     -21.202  16.041   1.465  1.00 18.68      B
ATOM   5609  CG  LEU B 182     -22.297  16.406   2.447  1.00 15.69      B
ATOM   5610  CD1 LEU B 182     -22.627  17.855   2.325  1.00 19.26      B
ATOM   5611  CD2 LEU B 182     -23.510  15.570   2.169  1.00 16.91      B
ATOM   5612  C   LEU B 182     -21.003  13.583   2.081  1.00 24.44      B
ATOM   5613  O   LEU B 182     -21.200  13.178   3.230  1.00 24.14      B
ATOM   5614  N   PRO B 183     -21.421  12.885   1.007  1.00 25.29      B
ATOM   5615  CD  PRO B 183     -21.158  13.173  -0.415  1.00 25.94      B
ATOM   5616  CA  PRO B 183     -22.150  11.612   1.160  1.00 26.00      B
ATOM   5617  CB  PRO B 183     -22.118  11.019  -0.247  1.00 25.49      B
ATOM   5618  CG  PRO B 183     -22.119  12.227  -1.123  1.00 27.26      B
ATOM   5619  C   PRO B 183     -21.513  10.665   2.183  1.00 27.13      B
ATOM   5620  O   PRO B 183     -22.178  10.160   3.087  1.00 26.75      B
ATOM   5621  N   GLN B 184     -20.217  10.425   2.021  1.00 27.65      B
ATOM   5622  CA  GLN B 184     -19.469   9.555   2.911  1.00 27.70      B
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ATOM   5623  CB  GLN B 184     -18.031   9.474   2.429  1.00 30.94      B
ATOM   5624  CG  GLN B 184     -17.102   8.723   3.358  1.00 36.84      B
ATOM   5625  CD  GLN B 184     -16.890   7.282   2.929  1.00 40.18      B
ATOM   5626  OE1 GLN B 184     -16.645   7.002   1.745  1.00 42.24      B
ATOM   5627  NE2 GLN B 184     -16.966   6.357   3.891  1.00 40.50      B
ATOM   5628  C   GLN B 184     -19.490  10.101   4.330  1.00 26.82      B
ATOM   5629  O   GLN B 184     -19.778   9.384   5.293  1.00 25.95      B
ATOM   5630  N   ALA B 185     -19.173  11.383   4.439  1.00 25.08      B
ATOM   5631  CA  ALA B 185     -19.126  12.081   5.716  1.00 25.79      B
ATOM   5632  CB  ALA B 185     -18.725  13.536   5.478  1.00 25.38      B
ATOM   5633  C   ALA B 185     -20.429  12.028   6.521  1.00 25.71      B
ATOM   5634  O   ALA B 185     -20.407  11.973   7.752  1.00 25.06      B
ATOM   5635  N   VAL B 186     -21.558  12.041   5.822  1.00 25.70      B
ATOM   5636  CA  VAL B 186     -22.859  12.033   6.474  1.00 25.81      B
ATOM   5637  CB  VAL B 186     -23.902  12.813   5.626  1.00 24.38      B
ATOM   5638  CG1 VAL B 186     -25.257  12.802   6.300  1.00 19.98      B
ATOM   5639  CG2 VAL B 186     -23.432  14.246   5.423  1.00 23.87      B
ATOM   5640  C   VAL B 186     -23.407  10.643   6.757  1.00 27.72      B
ATOM   5641  O   VAL B 186     -23.919  10.387   7.852  1.00 28.26      B
ATOM   5642  N   MET B 187     -23.282   9.743   5.788  1.00 28.82      B
ATOM   5643  CA  MET B 187     -23.816   8.391   5.938  1.00 30.88      B
ATOM   5644  CB  MET B 187     -24.613   8.043   4.680  1.00 31.56      B
ATOM   5645  CG  MET B 187     -25.747   9.028   4.390  1.00 32.91      B
ATOM   5646  SD  MET B 187     -26.194   9.102   2.640  1.00 34.63      B
ATOM   5647  CE  MET B 187     -26.578   7.404   2.322  1.00 36.55      B
ATOM   5648  C   MET B 187     -22.793   7.284   6.241  1.00 31.86      B
ATOM   5649  O   MET B 187     -23.166   6.139   6.512  1.00 32.58      B
ATOM   5650  N   GLY B 188     -21.509   7.621   6.195  1.00 32.19      B
ATOM   5651  CA  GLY B 188     -20.484   6.632   6.470  1.00 31.82      B
ATOM   5652  C   GLY B 188     -20.704   5.283   5.811  1.00 32.13      B
ATOM   5653  O   GLY B 188     -20.963   5.202   4.612  1.00 32.70      B
ATOM   5654  N   SER B 189     -20.611   4.221   6.604  1.00 32.74      B
ATOM   5655  CA  SER B 189     -20.767   2.851   6.105  1.00 33.04      B
ATOM   5656  CB  SER B 189     -20.856   1.868   7.274  1.00 32.83      B
ATOM   5657  OG  SER B 189     -22.121   1.960   7.910  1.00 34.06      B
ATOM   5658  C   SER B 189     -21.966   2.608   5.191  1.00 32.88      B
ATOM   5659  O   SER B 189     -21.898   1.773   4.289  1.00 33.09      B
ATOM   5660  N   SER B 190     -23.063   3.318   5.433  1.00 31.77      B
ATOM   5661  CA  SER B 190     -24.267   3.145   4.628  1.00 32.05      B
ATOM   5662  CB  SER B 190     -25.469   3.754   5.352  1.00 32.65      B
ATOM   5663  OG  SER B 190     -25.716   3.084   6.576  1.00 35.24      B
ATOM   5664  C   SER B 190     -24.199   3.705   3.206  1.00 31.95      B
ATOM   5665  O   SER B 190     -25.089   3.442   2.399  1.00 33.19      B
ATOM   5666  N   TYR B 191     -23.169   4.482   2.891  1.00 30.96      B
ATOM   5667  CA  TYR B 191     -23.053   5.031   1.548  1.00 31.78      B
ATOM   5668  CB  TYR B 191     -22.076   6.209   1.534  1.00 32.80      B
ATOM   5669  CG  TYR B 191     -21.920   6.899   0.190  1.00 31.97      B
ATOM   5670  CD1 TYR B 191     -23.026   7.344  -0.520  1.00 31.58      B
ATOM   5671  CE1 TYR B 191     -22.885   7.996  -1.738  1.00 31.19      B
ATOM   5672  CD2 TYR B 191     -20.656   7.128  -0.355  1.00 32.75      B
ATOM   5673  CE2 TYR B 191     -20.503   7.786  -1.571  1.00 31.65      B
ATOM   5674  CZ  TYR B 191     -21.624   8.214  -2.258  1.00 32.67      B
ATOM   5675  OH  TYR B 191     -21.489   8.849  -3.477  1.00 34.43      B
ATOM   5676  C   TYR B 191     -22.557   3.910   0.652  1.00 32.88      B
ATOM   5677  O   TYR B 191     -21.431   3.432   0.804  1.00 34.60      B
ATOM   5678  N   GLY B 192     -23.405   3.486  -0.279  1.00 33.27      B
ATOM   5679  CA  GLY B 192     -23.042   2.400  -1.167  1.00 34.02      B
ATOM   5680  C   GLY B 192     -21.859   2.592  -2.101  1.00 35.29      B
ATOM   5681  O   GLY B 192     -20.972   1.740  -2.164  1.00 35.24      B
ATOM   5682  N   PHE B 193     -21.826   3.713  -2.813  1.00 36.35      B
ATOM   5683  CA  PHE B 193     -20.769   3.966  -3.791  1.00 37.03      B
ATOM   5684  CB  PHE B 193     -21.077   5.255  -4.543  1.00 35.55      B
ATOM   5685  CG  PHE B 193     -22.391   5.226  -5.258  1.00 35.57      B
ATOM   5686  CD1 PHE B 193     -22.611   4.322  -6.289  1.00 34.49      B
ATOM   5687  CD2 PHE B 193     -23.415   6.099  -4.902  1.00 36.33      B
ATOM   5688  CE1 PHE B 193     -23.827   4.286  -6.959  1.00 33.64      B
ATOM   5689  CE2 PHE B 193     -24.639   6.072  -5.567  1.00 35.24      B
ATOM   5690  CZ  PHE B 193     -24.843   5.161  -6.598  1.00 35.27      B
ATOM   5691  C   PHE B 193     -19.325   3.981  -3.319  1.00 37.51      B
ATOM   5692  O   PHE B 193     -18.411   4.127  -4.130  1.00 37.24      B
ATOM   5693  N   GLN B 194     -19.101   3.822  -2.023  1.00 39.33      B
ATOM   5694  CA  GLN B 194     -17.729   3.823  -1.528  1.00 41.71      B
ATOM   5695  CB  GLN B 194     -17.671   4.306  -0.082  1.00 41.01      B
ATOM   5696  CG  GLN B 194     -18.127   3.282   0.918  1.00 40.81      B
ATOM   5697  CD  GLN B 194     -17.871   3.731   2.330  1.00 41.80      B
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ATOM	5698	OE1	GLN	B	194	-16.751	4.104	2.674	1.00	41.98	B
ATOM	5699	NE2	GLN	B	194	-18.907	3.694	3.165	1.00	42.10	B
ATOM	5700	C	GLN	B	194	-17.163	2.415	-1.590	1.00	43.36	B
ATOM	5701	O	GLN	B	194	-15.988	2.192	-1.287	1.00	43.99	B
ATOM	5702	N	TYR	B	195	-18.011	1.471	-1.990	1.00	43.80	B
ATOM	5703	CA	TYR	B	195	-17.630	0.070	-2.066	1.00	43.07	B
ATOM	5704	CB	TYR	B	195	-18.686	-0.783	-1.383	1.00	41.34	B
ATOM	5705	CG	TYR	B	195	-18.964	-0.442	0.053	1.00	41.20	B
ATOM	5706	CD1	TYR	B	195	-17.964	-0.534	1.020	1.00	40.19	B
ATOM	5707	CE1	TYR	B	195	-18.244	-0.316	2.363	1.00	40.01	B
ATOM	5708	CD2	TYR	B	195	-20.254	-0.111	0.463	1.00	41.91	B
ATOM	5709	CE2	TYR	B	195	-20.549	0.108	1.803	1.00	42.56	B
ATOM	5710	CZ	TYR	B	195	-19.540	-0.002	2.750	1.00	42.38	B
ATOM	5711	OH	TYR	B	195	-19.847	0.165	4.082	1.00	45.04	B
ATOM	5712	C	TYR	B	195	-17.428	-0.502	-3.461	1.00	44.56	B
ATOM	5713	O	TYR	B	195	-18.161	-0.184	-4.395	1.00	45.04	B
ATOM	5714	N	SER	B	196	-16.428	-1.368	-3.588	1.00	46.44	B
ATOM	5715	CA	SER	B	196	-16.167	-2.052	-4.850	1.00	46.37	B
ATOM	5716	CB	SER	B	196	-14.681	-2.381	-5.002	1.00	44.33	B
ATOM	5717	OG	SER	B	196	-14.293	-3.404	-4.105	1.00	42.58	B
ATOM	5718	C	SER	B	196	-16.981	-3.341	-4.698	1.00	47.90	B
ATOM	5719	O	SER	B	196	-17.306	-3.754	-3.572	1.00	47.07	B
ATOM	5720	N	PRO	B	197	-17.311	-4.002	-5.816	1.00	48.88	B
ATOM	5721	CD	PRO	B	197	-16.737	-3.805	-7.158	1.00	48.64	B
ATOM	5722	CA	PRO	B	197	-18.098	-5.241	-5.770	1.00	49.37	B
ATOM	5723	CB	PRO	B	197	-17.809	-5.875	-7.120	1.00	49.23	B
ATOM	5724	CG	PRO	B	197	-17.620	-4.684	-8.004	1.00	48.75	B
ATOM	5725	C	PRO	B	197	-17.739	-6.160	-4.605	1.00	50.27	B
ATOM	5726	O	PRO	B	197	-18.622	-6.636	-3.882	1.00	49.31	B
ATOM	5727	N	LYS	B	198	-16.443	-6.407	-4.425	1.00	51.39	B
ATOM	5728	CA	LYS	B	198	-15.990	-7.264	-3.337	1.00	52.32	B
ATOM	5729	CB	LYS	B	198	-14.477	-7.470	-3.400	1.00	53.33	B
ATOM	5730	CG	LYS	B	198	-13.936	-8.282	-2.233	1.00	55.35	B
ATOM	5731	CD	LYS	B	198	-12.432	-8.509	-2.314	1.00	57.91	B
ATOM	5732	CE	LYS	B	198	-11.948	-9.358	-1.125	1.00	59.42	B
ATOM	5733	NZ	LYS	B	198	-10.468	-9.625	-1.116	1.00	59.96	B
ATOM	5734	C	LYS	B	198	-16.344	-6.654	-1.986	1.00	52.07	B
ATOM	5735	O	LYS	B	198	-16.824	-7.340	-1.078	1.00	51.98	B
ATOM	5736	N	GLN	B	199	-16.110	-5.355	-1.864	1.00	50.73	B
ATOM	5737	CA	GLN	B	199	-16.372	-4.656	-0.620	1.00	50.55	B
ATOM	5738	CB	GLN	B	199	-15.742	-3.270	-0.698	1.00	50.41	B
ATOM	5739	CG	GLN	B	199	-14.325	-3.360	-1.240	1.00	49.93	B
ATOM	5740	CD	GLN	B	199	-13.551	-2.081	-1.128	1.00	48.80	B
ATOM	5741	OE1	GLN	B	199	-13.980	-1.031	-1.614	1.00	48.32	B
ATOM	5742	NE2	GLN	B	199	-12.386	-2.159	-0.493	1.00	48.71	B
ATOM	5743	C	GLN	B	199	-17.856	-4.581	-0.290	1.00	50.36	B
ATOM	5744	O	GLN	B	199	-18.249	-4.650	0.879	1.00	49.83	B
ATOM	5745	N	ARG	B	200	-18.685	-4.451	-1.319	1.00	49.54	B
ATOM	5746	CA	ARG	B	200	-20.119	-4.388	-1.099	1.00	48.82	B
ATOM	5747	CB	ARG	B	200	-20.856	-4.158	-2.423	1.00	48.43	B
ATOM	5748	CG	ARG	B	200	-22.361	-4.033	-2.273	1.00	47.04	B
ATOM	5749	CD	ARG	B	200	-23.055	-3.952	-3.619	1.00	47.60	B
ATOM	5750	NE	ARG	B	200	-24.509	-3.859	-3.473	1.00	46.81	B
ATOM	5751	CZ	ARG	B	200	-25.158	-2.785	-3.032	1.00	45.14	B
ATOM	5752	NH1	ARG	B	200	-24.485	-1.693	-2.690	1.00	44.90	B
ATOM	5753	NH2	ARG	B	200	-26.480	-2.809	-2.928	1.00	43.45	B
ATOM	5754	C	ARG	B	200	-20.569	-5.706	-0.475	1.00	49.16	B
ATOM	5755	O	ARG	B	200	-21.197	-5.720	0.584	1.00	48.47	B
ATOM	5756	N	VAL	B	201	-20.232	-6.815	-1.130	1.00	49.79	B
ATOM	5757	CA	VAL	B	201	-20.620	-8.131	-0.630	1.00	51.03	B
ATOM	5758	CB	VAL	B	201	-19.928	-9.283	-1.402	1.00	52.26	B
ATOM	5759	CG1	VAL	B	201	-20.405	-10.620	-0.859	1.00	51.68	B
ATOM	5760	CG2	VAL	B	201	-20.220	-9.181	-2.889	1.00	54.03	B
ATOM	5761	C	VAL	B	201	-20.232	-8.268	0.831	1.00	50.33	B
ATOM	5762	O	VAL	B	201	-21.037	-8.699	1.664	1.00	49.53	B
ATOM	5763	N	GLU	B	202	-18.990	-7.891	1.125	1.00	49.63	B
ATOM	5764	CA	GLU	B	202	-18.463	-7.980	2.473	1.00	49.36	B
ATOM	5765	CB	GLU	B	202	-17.049	-7.407	2.540	1.00	50.68	B
ATOM	5766	CG	GLU	B	202	-16.577	-7.201	3.972	1.00	52.88	B
ATOM	5767	CD	GLU	B	202	-15.163	-6.660	4.071	1.00	53.96	B
ATOM	5768	OE1	GLU	B	202	-14.827	-5.736	3.293	1.00	54.66	B
ATOM	5769	OE2	GLU	B	202	-14.399	-7.151	4.938	1.00	54.15	B
ATOM	5770	C	GLU	B	202	-19.340	-7.273	3.486	1.00	48.60	B
ATOM	5771	O	GLU	B	202	-19.740	-7.869	4.484	1.00	49.62	B
ATOM	5772	N	PHE	B	203	-19.646	-6.007	3.231	1.00	47.42	B

ATOM	5773	CA	PHE	B	203	-20.475	-5.241	4.151	1.00	46.35	B
ATOM	5774	CB	PHE	B	203	-20.679	-3.816	3.619	1.00	44.74	B
ATOM	5775	CG	PHE	B	203	-21.463	-2.925	4.547	1.00	43.64	B
ATOM	5776	CD1	PHE	B	203	-20.932	-2.530	5.766	1.00	42.59	B
ATOM	5777	CD2	PHE	B	203	-22.743	-2.491	4.200	1.00	42.83	B
ATOM	5778	CE1	PHE	B	203	-21.665	-1.714	6.630	1.00	43.44	B
ATOM	5779	CE2	PHE	B	203	-23.479	-1.680	5.052	1.00	41.55	B
ATOM	5780	CZ	PHE	B	203	-22.941	-1.290	6.270	1.00	42.42	B
ATOM	5781	C	PHE	B	203	-21.830	-5.922	4.371	1.00	46.20	B
ATOM	5782	O	PHE	B	203	-22.316	-6.003	5.496	1.00	47.19	B
ATOM	5783	N	LEU	B	204	-22.435	-6.425	3.303	1.00	45.21	B
ATOM	5784	CA	LEU	B	204	-23.727	-7.067	3.442	1.00	44.39	B
ATOM	5785	CB	LEU	B	204	-24.322	-7.365	2.066	1.00	41.98	B
ATOM	5786	CG	LEU	B	204	-24.814	-6.141	1.284	1.00	38.89	B
ATOM	5787	CD1	LEU	B	204	-25.450	-6.588	-0.012	1.00	37.07	B
ATOM	5788	CD2	LEU	B	204	-25.822	-5.359	2.107	1.00	36.00	B
ATOM	5789	C	LEU	B	204	-23.697	-8.329	4.301	1.00	45.84	B
ATOM	5790	O	LEU	B	204	-24.396	-8.405	5.313	1.00	46.38	B
ATOM	5791	N	VAL	B	205	-22.889	-9.317	3.926	1.00	47.11	B
ATOM	5792	CA	VAL	B	205	-22.835	-10.548	4.720	1.00	47.44	B
ATOM	5793	CB	VAL	B	205	-21.814	-11.562	4.163	1.00	47.02	B
ATOM	5794	CG1	VAL	B	205	-21.590	-12.686	5.173	1.00	45.83	B
ATOM	5795	CG2	VAL	B	205	-22.328	-12.134	2.850	1.00	45.60	B
ATOM	5796	C	VAL	B	205	-22.484	-10.236	6.165	1.00	47.77	B
ATOM	5797	O	VAL	B	205	-23.148	-10.708	7.086	1.00	47.45	B
ATOM	5798	N	ASN	B	206	-21.437	-9.443	6.358	1.00	48.91	B
ATOM	5799	CA	ASN	B	206	-21.028	-9.057	7.699	1.00	49.76	B
ATOM	5800	CB	ASN	B	206	-19.892	-8.040	7.657	1.00	48.32	B
ATOM	5801	CG	ASN	B	206	-18.538	-8.692	7.551	1.00	48.00	B
ATOM	5802	OD1	ASN	B	206	-18.258	-9.668	8.245	1.00	48.00	B
ATOM	5803	ND2	ASN	B	206	-17.681	-8.151	6.693	1.00	47.49	B
ATOM	5804	C	ASN	B	206	-22.208	-8.442	8.428	1.00	51.49	B
ATOM	5805	O	ASN	B	206	-22.460	-8.752	9.594	1.00	51.95	B
ATOM	5806	N	THR	B	207	-22.935	-7.569	7.737	1.00	52.94	B
ATOM	5807	CA	THR	B	207	-24.084	-6.921	8.345	1.00	55.04	B
ATOM	5808	CB	THR	B	207	-24.744	-5.889	7.387	1.00	54.35	B
ATOM	5809	OG1	THR	B	207	-23.818	-4.833	7.109	1.00	51.78	B
ATOM	5810	CG2	THR	B	207	-25.999	-5.290	8.025	1.00	52.83	B
ATOM	5811	C	THR	B	207	-25.108	-7.977	8.728	1.00	57.28	B
ATOM	5812	O	THR	B	207	-25.731	-7.892	9.786	1.00	58.32	B
ATOM	5813	N	TRP	B	208	-25.271	-8.983	7.875	1.00	59.44	B
ATOM	5814	CA	TRP	B	208	-26.236	-10.039	8.151	1.00	62.19	B
ATOM	5815	CB	TRP	B	208	-26.395	-10.950	6.924	1.00	63.65	B
ATOM	5816	CG	TRP	B	208	-27.544	-11.909	7.047	1.00	65.34	B
ATOM	5817	CD2	TRP	B	208	-28.888	-11.695	6.600	1.00	66.17	B
ATOM	5818	CE2	TRP	B	208	-29.641	-12.824	6.992	1.00	66.42	B
ATOM	5819	CE3	TRP	B	208	-29.530	-10.656	5.914	1.00	65.83	B
ATOM	5820	CD1	TRP	B	208	-27.537	-13.123	7.667	1.00	65.67	B
ATOM	5821	NE1	TRP	B	208	-28.791	-13.679	7.641	1.00	65.58	B
ATOM	5822	CZ2	TRP	B	208	-31.006	-12.946	6.717	1.00	66.74	B
ATOM	5823	CZ3	TRP	B	208	-30.887	-10.777	5.641	1.00	66.32	B
ATOM	5824	CH2	TRP	B	208	-31.610	-11.916	6.044	1.00	67.04	B
ATOM	5825	C	TRP	B	208	-25.837	-10.862	9.379	1.00	63.29	B
ATOM	5826	O	TRP	B	208	-26.686	-11.187	10.219	1.00	63.76	B
ATOM	5827	N	LYS	B	209	-24.547	-11.185	9.488	1.00	63.69	B
ATOM	5828	CA	LYS	B	209	-24.035	-11.969	10.614	1.00	63.64	B
ATOM	5829	CB	LYS	B	209	-22.588	-12.383	10.358	1.00	63.58	B
ATOM	5830	CG	LYS	B	209	-22.435	-13.375	9.228	1.00	64.94	B
ATOM	5831	CD	LYS	B	209	-21.007	-13.874	9.129	1.00	65.83	B
ATOM	5832	CE	LYS	B	209	-20.889	-14.982	8.101	1.00	67.01	B
ATOM	5833	NZ	LYS	B	209	-19.491	-15.491	8.001	1.00	68.14	B
ATOM	5834	C	LYS	B	209	-24.114	-11.232	11.946	1.00	63.56	B
ATOM	5835	O	LYS	B	209	-24.517	-11.806	12.959	1.00	64.18	B
ATOM	5836	N	SER	B	210	-23.729	-9.962	11.946	1.00	63.15	B
ATOM	5837	CA	SER	B	210	-23.763	-9.165	13.165	1.00	62.60	B
ATOM	5838	CB	SER	B	210	-23.381	-7.717	12.857	1.00	61.76	B
ATOM	5839	OG	SER	B	210	-24.279	-7.154	11.922	1.00	61.19	B
ATOM	5840	C	SER	B	210	-25.134	-9.194	13.841	1.00	62.80	B
ATOM	5841	O	SER	B	210	-25.232	-9.001	15.051	1.00	62.44	B
ATOM	5842	N	LYS	B	211	-26.186	-9.431	13.058	1.00	63.39	B
ATOM	5843	CA	LYS	B	211	-27.550	-9.480	13.586	1.00	63.93	B
ATOM	5844	CB	LYS	B	211	-28.581	-9.228	12.475	1.00	63.69	B
ATOM	5845	CG	LYS	B	211	-28.305	-8.016	11.583	1.00	62.95	B
ATOM	5846	CD	LYS	B	211	-28.307	-6.712	12.364	1.00	60.72	B
ATOM	5847	CE	LYS	B	211	-28.043	-5.531	11.458	1.00	57.48	B

ATOM	5848	NZ	LYS	B	211	-28.028	-4.267	12.236	1.00	56.63	B
ATOM	5849	C	LYS	B	211	-27.829	-10.844	14.200	1.00	64.77	B
ATOM	5850	O	LYS	B	211	-27.388	-11.872	13.679	1.00	64.63	B
ATOM	5851	N	LYS	B	212	-28.568	-10.851	15.306	1.00	65.78	B
ATOM	5852	CA	LYS	B	212	-28.915	-12.102	15.975	1.00	66.43	B
ATOM	5853	CB	LYS	B	212	-29.639	-11.824	17.295	1.00	67.60	B
ATOM	5854	CG	LYS	B	212	-28.799	-11.068	18.309	1.00	68.84	B
ATOM	5855	CD	LYS	B	212	-29.517	-10.937	19.644	1.00	70.32	B
ATOM	5856	CE	LYS	B	212	-28.617	-10.279	20.691	1.00	70.76	B
ATOM	5857	NZ	LYS	B	212	-29.221	-10.312	22.059	1.00	70.84	B
ATOM	5858	C	LYS	B	212	-29.817	-12.892	15.034	1.00	66.13	B
ATOM	5859	O	LYS	B	212	-29.367	-13.836	14.389	1.00	66.83	B
ATOM	5860	N	CYS	B	213	-31.087	-12.501	14.962	1.00	65.25	B
ATOM	5861	CA	CYS	B	213	-32.049	-13.139	14.067	1.00	64.54	B
ATOM	5862	CB	CYS	B	213	-33.350	-13.473	14.813	1.00	65.19	B
ATOM	5863	SG	CYS	B	213	-34.515	-14.562	13.913	1.00	65.25	B
ATOM	5864	C	CYS	B	213	-32.318	-12.111	12.962	1.00	63.96	B
ATOM	5865	O	CYS	B	213	-33.255	-11.308	13.049	1.00	63.52	B
ATOM	5866	N	PRO	B	214	-31.484	-12.118	11.907	1.00	62.72	B
ATOM	5867	CD	PRO	B	214	-30.402	-13.077	11.630	1.00	61.97	B
ATOM	5868	CA	PRO	B	214	-31.638	-11.176	10.793	1.00	62.17	B
ATOM	5869	CB	PRO	B	214	-30.535	-11.598	9.818	1.00	61.24	B
ATOM	5870	CG	PRO	B	214	-30.341	-13.037	10.123	1.00	61.80	B
ATOM	5871	C	PRO	B	214	-33.007	-11.121	10.131	1.00	61.17	B
ATOM	5872	O	PRO	B	214	-33.889	-11.939	10.399	1.00	62.40	B
ATOM	5873	N	MET	B	215	-33.159	-10.114	9.280	1.00	58.50	B
ATOM	5874	CA	MET	B	215	-34.369	-9.859	8.516	1.00	55.98	B
ATOM	5875	CB	MET	B	215	-35.511	-9.410	9.420	1.00	55.48	B
ATOM	5876	CG	MET	B	215	-36.830	-9.229	8.685	1.00	56.24	B
ATOM	5877	SD	MET	B	215	-36.854	-7.868	7.473	1.00	56.74	B
ATOM	5878	CE	MET	B	215	-37.925	-6.681	8.339	1.00	54.13	B
ATOM	5879	C	MET	B	215	-33.975	-8.725	7.593	1.00	54.75	B
ATOM	5880	O	MET	B	215	-33.378	-7.743	8.032	1.00	54.19	B
ATOM	5881	N	GLY	B	216	-34.290	-8.862	6.314	1.00	52.92	B
ATOM	5882	CA	GLY	B	216	-33.917	-7.820	5.386	1.00	51.38	B
ATOM	5883	C	GLY	B	216	-34.832	-7.685	4.196	1.00	49.83	B
ATOM	5884	O	GLY	B	216	-35.475	-8.642	3.775	1.00	50.03	B
ATOM	5885	N	PHE	B	217	-34.886	-6.477	3.653	1.00	47.80	B
ATOM	5886	CA	PHE	B	217	-35.715	-6.209	2.495	1.00	44.94	B
ATOM	5887	CB	PHE	B	217	-37.114	-5.763	2.927	1.00	44.79	B
ATOM	5888	CG	PHE	B	217	-37.116	-4.580	3.853	1.00	43.74	B
ATOM	5889	CD1	PHE	B	217	-36.900	-4.749	5.218	1.00	44.00	B
ATOM	5890	CD2	PHE	B	217	-37.316	-3.294	3.357	1.00	42.77	B
ATOM	5891	CE1	PHE	B	217	-36.884	-3.652	6.081	1.00	43.60	B
ATOM	5892	CE2	PHE	B	217	-37.301	-2.194	4.206	1.00	42.47	B
ATOM	5893	CZ	PHE	B	217	-37.085	-2.371	5.572	1.00	42.94	B
ATOM	5894	C	PHE	B	217	-35.082	-5.129	1.647	1.00	42.60	B
ATOM	5895	O	PHE	B	217	-34.128	-4.475	2.053	1.00	42.27	B
ATOM	5896	N	SER	B	218	-35.615	-4.968	0.451	1.00	40.67	B
ATOM	5897	CA	SER	B	218	-35.139	-3.957	-0.462	1.00	38.60	B
ATOM	5898	CB	SER	B	218	-34.776	-4.588	-1.810	1.00	37.87	B
ATOM	5899	OG	SER	B	218	-35.903	-5.207	-2.408	1.00	37.63	B
ATOM	5900	C	SER	B	218	-36.343	-3.047	-0.598	1.00	38.39	B
ATOM	5901	O	SER	B	218	-37.478	-3.477	-0.375	1.00	38.14	B
ATOM	5902	N	TYR	B	219	-36.109	-1.785	-0.923	1.00	38.29	B
ATOM	5903	CA	TYR	B	219	-37.220	-0.867	-1.078	1.00	37.89	B
ATOM	5904	CB	TYR	B	219	-37.226	0.188	0.024	1.00	37.70	B
ATOM	5905	CG	TYR	B	219	-38.531	0.951	0.106	1.00	35.80	B
ATOM	5906	CD1	TYR	B	219	-39.648	0.399	0.733	1.00	34.33	B
ATOM	5907	CE1	TYR	B	219	-40.851	1.078	0.776	1.00	34.25	B
ATOM	5908	CD2	TYR	B	219	-38.657	2.210	-0.475	1.00	34.79	B
ATOM	5909	CE2	TYR	B	219	-39.854	2.900	-0.444	1.00	34.57	B
ATOM	5910	CZ	TYR	B	219	-40.951	2.333	0.179	1.00	35.92	B
ATOM	5911	OH	TYR	B	219	-42.154	3.009	0.168	1.00	35.02	B
ATOM	5912	C	TYR	B	219	-37.117	-0.204	-2.430	1.00	39.14	B
ATOM	5913	O	TYR	B	219	-36.175	0.539	-2.723	1.00	40.22	B
ATOM	5914	N	ASP	B	220	-38.095	-0.500	-3.265	1.00	39.64	B
ATOM	5915	CA	ASP	B	220	-38.135	0.045	-4.599	1.00	39.75	B
ATOM	5916	CB	ASP	B	220	-38.587	-1.039	-5.569	1.00	40.70	B
ATOM	5917	CG	ASP	B	220	-39.098	-0.475	-6.871	1.00	43.08	B
ATOM	5918	OD1	ASP	B	220	-38.275	0.070	-7.641	1.00	44.04	B
ATOM	5919	OD2	ASP	B	220	-40.328	-0.571	-7.115	1.00	43.48	B
ATOM	5920	C	ASP	B	220	-39.105	1.213	-4.607	1.00	39.95	B
ATOM	5921	O	ASP	B	220	-40.322	1.030	-4.520	1.00	40.51	B
ATOM	5922	N	THR	B	221	-38.564	2.421	-4.691	1.00	39.69	B

ATOM	5923	CA	THR	B	221	-39.410	3.597	-4.711	1.00	39.55	B
ATOM	5924	CB	THR	B	221	-38.642	4.856	-4.306	1.00	39.25	B
ATOM	5925	OG1	THR	B	221	-37.882	4.594	-3.118	1.00	40.22	B
ATOM	5926	CG2	THR	B	221	-39.614	5.994	-4.038	1.00	37.95	B
ATOM	5927	C	THR	B	221	-39.960	3.776	-6.114	1.00	40.79	B
ATOM	5928	O	THR	B	221	-39.237	3.653	-7.106	1.00	41.74	B
ATOM	5929	N	ARG	B	222	-41.252	4.058	-6.191	1.00	41.69	B
ATOM	5930	CA	ARG	B	222	-41.917	4.249	-7.468	1.00	41.66	B
ATOM	5931	CB	ARG	B	222	-43.430	4.271	-7.254	1.00	43.44	B
ATOM	5932	CG	ARG	B	222	-44.252	4.537	-8.495	1.00	44.74	B
ATOM	5933	CD	ARG	B	222	-45.702	4.676	-8.116	1.00	46.49	B
ATOM	5934	NE	ARG	B	222	-46.539	5.027	-9.255	1.00	51.07	B
ATOM	5935	CZ	ARG	B	222	-46.373	6.115	-10.001	1.00	53.75	B
ATOM	5936	NH1	ARG	B	222	-45.386	6.964	-9.727	1.00	56.35	B
ATOM	5937	NH2	ARG	B	222	-47.202	6.361	-11.010	1.00	52.50	B
ATOM	5938	C	ARG	B	222	-41.463	5.554	-8.092	1.00	40.28	B
ATOM	5939	O	ARG	B	222	-41.810	6.620	-7.600	1.00	41.69	B
ATOM	5940	N	CYS	B	223	-40.688	5.468	-9.170	1.00	39.44	B
ATOM	5941	CA	CYS	B	223	-40.192	6.658	-9.869	1.00	38.34	B
ATOM	5942	CB	CYS	B	223	-41.323	7.308	-10.656	1.00	40.10	B
ATOM	5943	SG	CYS	B	223	-42.138	6.199	-11.796	1.00	45.91	B
ATOM	5944	C	CYS	B	223	-39.629	7.675	-8.887	1.00	36.65	B
ATOM	5945	O	CYS	B	223	-40.152	8.787	-8.765	1.00	36.22	B
ATOM	5946	N	PHE	B	224	-38.553	7.293	-8.204	1.00	34.12	B
ATOM	5947	CA	PHE	B	224	-37.933	8.141	-7.199	1.00	31.58	B
ATOM	5948	CB	PHE	B	224	-36.563	7.581	-6.808	1.00	31.66	B
ATOM	5949	CG	PHE	B	224	-35.990	8.209	-5.564	1.00	33.20	B
ATOM	5950	CD1	PHE	B	224	-35.458	9.503	-5.595	1.00	31.38	B
ATOM	5951	CD2	PHE	B	224	-36.047	7.535	-4.336	1.00	31.45	B
ATOM	5952	CE1	PHE	B	224	-34.998	10.119	-4.424	1.00	29.79	B
ATOM	5953	CE2	PHE	B	224	-35.589	8.145	-3.159	1.00	29.83	B
ATOM	5954	CZ	PHE	B	224	-35.067	9.439	-3.205	1.00	30.04	B
ATOM	5955	C	PHE	B	224	-37.797	9.609	-7.584	1.00	30.65	B
ATOM	5956	O	PHE	B	224	-38.241	10.490	-6.851	1.00	28.97	B
ATOM	5957	N	ASP	B	225	-37.193	9.878	-8.734	1.00	30.70	B
ATOM	5958	CA	ASP	B	225	-37.000	11.252	-9.158	1.00	29.81	B
ATOM	5959	CB	ASP	B	225	-36.335	11.299	-10.537	1.00	30.36	B
ATOM	5960	CG	ASP	B	225	-34.889	10.836	-10.494	1.00	33.85	B
ATOM	5961	OD1	ASP	B	225	-34.399	10.547	-9.381	1.00	35.25	B
ATOM	5962	OD2	ASP	B	225	-34.234	10.760	-11.558	1.00	34.98	B
ATOM	5963	C	ASP	B	225	-38.271	12.075	-9.149	1.00	28.41	B
ATOM	5964	O	ASP	B	225	-38.283	13.194	-8.633	1.00	29.04	B
ATOM	5965	N	SER	B	226	-39.348	11.537	-9.701	1.00	27.89	B
ATOM	5966	CA	SER	B	226	-40.585	12.303	-9.725	1.00	28.39	B
ATOM	5967	CB	SER	B	226	-41.651	11.597	-10.567	1.00	29.94	B
ATOM	5968	OG	SER	B	226	-41.878	10.277	-10.110	1.00	35.92	B
ATOM	5969	C	SER	B	226	-41.101	12.536	-8.320	1.00	27.25	B
ATOM	5970	O	SER	B	226	-41.823	13.495	-8.074	1.00	27.31	B
ATOM	5971	N	THR	B	227	-40.713	11.676	-7.387	1.00	27.68	B
ATOM	5972	CA	THR	B	227	-41.183	11.836	-6.022	1.00	27.79	B
ATOM	5973	CB	THR	B	227	-41.142	10.513	-5.243	1.00	29.27	B
ATOM	5974	OG1	THR	B	227	-39.792	10.207	-4.872	1.00	31.85	B
ATOM	5975	CG2	THR	B	227	-41.702	9.389	-6.098	1.00	30.42	B
ATOM	5976	C	THR	B	227	-40.398	12.874	-5.241	1.00	27.00	B
ATOM	5977	O	THR	B	227	-40.855	13.309	-4.188	1.00	28.47	B
ATOM	5978	N	VAL	B	228	-39.224	13.268	-5.737	1.00	26.42	B
ATOM	5979	CA	VAL	B	228	-38.412	14.279	-5.048	1.00	25.54	B
ATOM	5980	CB	VAL	B	228	-36.982	14.365	-5.635	1.00	25.62	B
ATOM	5981	CG1	VAL	B	228	-36.245	15.567	-5.063	1.00	23.01	B
ATOM	5982	CG2	VAL	B	228	-36.222	13.104	-5.295	1.00	24.29	B
ATOM	5983	C	VAL	B	228	-39.094	15.647	-5.135	1.00	25.24	B
ATOM	5984	O	VAL	B	228	-39.371	16.155	-6.227	1.00	25.50	B
ATOM	5985	N	THR	B	229	-39.348	16.233	-3.969	1.00	24.31	B
ATOM	5986	CA	THR	B	229	-40.047	17.515	-3.848	1.00	22.82	B
ATOM	5987	CB	THR	B	229	-40.947	17.494	-2.616	1.00	20.04	B
ATOM	5988	OG1	THR	B	229	-40.133	17.477	-1.437	1.00	16.03	B
ATOM	5989	CG2	THR	B	229	-41.820	16.259	-2.629	1.00	17.89	B
ATOM	5990	C	THR	B	229	-39.175	18.765	-3.744	1.00	24.33	B
ATOM	5991	O	THR	B	229	-37.989	18.697	-3.426	1.00	24.58	B
ATOM	5992	N	GLU	B	230	-39.779	19.917	-4.001	1.00	25.36	B
ATOM	5993	CA	GLU	B	230	-39.049	21.171	-3.904	1.00	26.88	B
ATOM	5994	CB	GLU	B	230	-39.981	22.363	-4.159	1.00	29.09	B
ATOM	5995	CG	GLU	B	230	-40.675	22.345	-5.511	1.00	32.43	B
ATOM	5996	CD	GLU	B	230	-42.017	21.634	-5.467	1.00	35.24	B
ATOM	5997	OE1	GLU	B	230	-42.103	20.532	-4.862	1.00	36.17	B

ATOM	5998	OE2	GLU	B	230	-42.982	22.183	-6.044	1.00	35.06	B
ATOM	5999	C	GLU	B	230	-38.480	21.259	-2.491	1.00	25.90	B
ATOM	6000	O	GLU	B	230	-37.381	21.772	-2.263	1.00	25.63	B
ATOM	6001	N	SER	B	231	-39.243	20.738	-1.541	1.00	24.29	B
ATOM	6002	CA	SER	B	231	-38.830	20.754	-0.156	1.00	22.81	B
ATOM	6003	CB	SER	B	231	-39.977	20.267	0.719	1.00	20.49	B
ATOM	6004	OG	SER	B	231	-39.598	20.242	2.076	1.00	18.36	B
ATOM	6005	C	SER	B	231	-37.595	19.873	0.029	1.00	24.01	B
ATOM	6006	O	SER	B	231	-36.629	20.290	0.665	1.00	25.37	B
ATOM	6007	N	ASP	B	232	-37.622	18.665	-0.534	1.00	22.90	B
ATOM	6008	CA	ASP	B	232	-36.491	17.749	-0.421	1.00	22.68	B
ATOM	6009	CB	ASP	B	232	-36.757	16.450	-1.186	1.00	23.61	B
ATOM	6010	CG	ASP	B	232	-37.882	15.638	-0.590	1.00	26.72	B
ATOM	6011	OD1	ASP	B	232	-38.018	15.625	0.660	1.00	24.14	B
ATOM	6012	OD2	ASP	B	232	-38.616	14.995	-1.378	1.00	27.31	B
ATOM	6013	C	ASP	B	232	-35.201	18.361	-0.958	1.00	21.99	B
ATOM	6014	O	ASP	B	232	-34.133	18.228	-0.354	1.00	20.73	B
ATOM	6015	N	ILE	B	233	-35.313	19.020	-2.106	1.00	20.97	B
ATOM	6016	CA	ILE	B	233	-34.178	19.653	-2.757	1.00	20.24	B
ATOM	6017	CB	ILE	B	233	-34.581	20.015	-4.217	1.00	18.35	B
ATOM	6018	CG2	ILE	B	233	-33.550	20.904	-4.903	1.00	14.51	B
ATOM	6019	CG1	ILE	B	233	-34.739	18.713	-5.001	1.00	14.92	B
ATOM	6020	CD1	ILE	B	233	-35.617	18.831	-6.224	1.00	12.96	B
ATOM	6021	C	ILE	B	233	-33.672	20.857	-1.933	1.00	21.80	B
ATOM	6022	O	ILE	B	233	-32.468	21.134	-1.895	1.00	22.06	B
ATOM	6023	N	ARG	B	234	-34.573	21.548	-1.243	1.00	21.53	B
ATOM	6024	CA	ARG	B	234	-34.155	22.665	-0.400	1.00	21.34	B
ATOM	6025	CB	ARG	B	234	-35.335	23.598	-0.116	1.00	21.32	B
ATOM	6026	CG	ARG	B	234	-35.420	24.737	-1.105	1.00	22.34	B
ATOM	6027	CD	ARG	B	234	-36.767	25.390	-1.080	1.00	26.50	B
ATOM	6028	NE	ARG	B	234	-36.926	26.358	-2.165	1.00	29.20	B
ATOM	6029	CZ	ARG	B	234	-38.078	26.578	-2.792	1.00	27.52	B
ATOM	6030	NH1	ARG	B	234	-39.161	25.897	-2.441	1.00	29.98	B
ATOM	6031	NH2	ARG	B	234	-38.154	27.474	-3.762	1.00	26.45	B
ATOM	6032	C	ARG	B	234	-33.544	22.162	0.909	1.00	20.81	B
ATOM	6033	O	ARG	B	234	-32.665	22.807	1.481	1.00	21.08	B
ATOM	6034	N	VAL	B	235	-34.010	21.011	1.378	1.00	20.04	B
ATOM	6035	CA	VAL	B	235	-33.484	20.412	2.600	1.00	20.93	B
ATOM	6036	CB	VAL	B	235	-34.326	19.200	3.054	1.00	20.19	B
ATOM	6037	CG1	VAL	B	235	-33.576	18.410	4.099	1.00	21.38	B
ATOM	6038	CG2	VAL	B	235	-35.650	19.660	3.603	1.00	19.54	B
ATOM	6039	C	VAL	B	235	-32.089	19.924	2.263	1.00	21.75	B
ATOM	6040	O	VAL	B	235	-31.140	20.129	3.013	1.00	21.92	B
ATOM	6041	N	GLU	B	236	-31.981	19.264	1.120	1.00	22.70	B
ATOM	6042	CA	GLU	B	236	-30.707	18.759	0.649	1.00	23.77	B
ATOM	6043	CB	GLU	B	236	-30.904	18.205	-0.756	1.00	24.79	B
ATOM	6044	CG	GLU	B	236	-29.656	17.951	-1.559	1.00	25.93	B
ATOM	6045	CD	GLU	B	236	-29.985	17.374	-2.923	1.00	29.61	B
ATOM	6046	OE1	GLU	B	236	-29.102	17.423	-3.813	1.00	31.11	B
ATOM	6047	OE2	GLU	B	236	-31.125	16.866	-3.103	1.00	28.65	B
ATOM	6048	C	GLU	B	236	-29.725	19.937	0.654	1.00	25.12	B
ATOM	6049	O	GLU	B	236	-28.571	19.813	1.083	1.00	25.08	B
ATOM	6050	N	GLU	B	237	-30.198	21.092	0.200	1.00	23.15	B
ATOM	6051	CA	GLU	B	237	-29.355	22.267	0.178	1.00	22.47	B
ATOM	6052	CB	GLU	B	237	-30.085	23.464	-0.407	1.00	23.00	B
ATOM	6053	CG	GLU	B	237	-29.135	24.529	-0.900	1.00	23.19	B
ATOM	6054	CD	GLU	B	237	-29.710	25.911	-0.797	1.00	25.59	B
ATOM	6055	OE1	GLU	B	237	-30.905	26.082	-1.111	1.00	25.15	B
ATOM	6056	OE2	GLU	B	237	-28.958	26.827	-0.409	1.00	26.48	B
ATOM	6057	C	GLU	B	237	-28.918	22.620	1.589	1.00	23.82	B
ATOM	6058	O	GLU	B	237	-27.742	22.902	1.816	1.00	24.75	B
ATOM	6059	N	SER	B	238	-29.852	22.624	2.537	1.00	21.97	B
ATOM	6060	CA	SER	B	238	-29.486	22.958	3.896	1.00	20.50	B
ATOM	6061	CB	SER	B	238	-30.676	22.790	4.831	1.00	21.00	B
ATOM	6062	OG	SER	B	238	-30.947	21.425	5.078	1.00	20.61	B
ATOM	6063	C	SER	B	238	-28.341	22.047	4.327	1.00	21.85	B
ATOM	6064	O	SER	B	238	-27.534	22.412	5.189	1.00	21.75	B
ATOM	6065	N	ILE	B	239	-28.258	20.861	3.734	1.00	20.90	B
ATOM	6066	CA	ILE	B	239	-27.164	19.971	4.092	1.00	22.90	B
ATOM	6067	CB	ILE	B	239	-27.435	18.502	3.691	1.00	21.00	B
ATOM	6068	CG2	ILE	B	239	-26.211	17.646	4.033	1.00	18.83	B
ATOM	6069	CG1	ILE	B	239	-28.653	17.969	4.455	1.00	20.79	B
ATOM	6070	CD1	ILE	B	239	-29.107	16.593	4.024	1.00	18.82	B
ATOM	6071	C	ILE	B	239	-25.876	20.457	3.428	1.00	24.22	B
ATOM	6072	O	ILE	B	239	-24.852	20.568	4.079	1.00	28.20	B

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ATOM   6073  N   TYR B 240     -25.915  20.759   2.138  1.00 24.26      B
ATOM   6074  CA  TYR B 240     -24.717  21.253   1.478  1.00 23.43      B
ATOM   6075  CB  TYR B 240     -25.002  21.569   0.011  1.00 23.86      B
ATOM   6076  CG  TYR B 240     -25.483  20.397  -0.795  1.00 23.46      B
ATOM   6077  CD1 TYR B 240     -24.992  19.117  -0.554  1.00 23.87      B
ATOM   6078  CE1 TYR B 240     -25.391  18.038  -1.331  1.00 26.60      B
ATOM   6079  CD2 TYR B 240     -26.394  20.573  -1.836  1.00 24.06      B
ATOM   6080  CE2 TYR B 240     -26.804  19.500  -2.626  1.00 24.86      B
ATOM   6081  CZ  TYR B 240     -26.295  18.236  -2.368  1.00 27.01      B
ATOM   6082  OH  TYR B 240     -26.657  17.177  -3.162  1.00 29.35      B
ATOM   6083  C   TYR B 240     -24.197  22.524   2.155  1.00 23.54      B
ATOM   6084  O   TYR B 240     -22.995  22.663   2.356  1.00 23.83      B
ATOM   6085  N   GLN B 241     -25.104  23.445   2.490  1.00 22.29      B
ATOM   6086  CA  GLN B 241     -24.754  24.719   3.119  1.00 20.85      B
ATOM   6087  CB  GLN B 241     -25.989  25.610   3.231  1.00 22.02      B
ATOM   6088  CG  GLN B 241     -26.535  26.147   1.913  1.00 22.64      B
ATOM   6089  CD  GLN B 241     -25.622  27.170   1.267  1.00 23.67      B
ATOM   6090  OE1 GLN B 241     -24.658  27.627   1.874  1.00 25.29      B
ATOM   6091  NE2 GLN B 241     -25.934  27.546   0.035  1.00 22.68      B
ATOM   6092  C   GLN B 241     -24.114  24.587   4.500  1.00 22.39      B
ATOM   6093  O   GLN B 241     -23.792  25.600   5.150  1.00 22.08      B
ATOM   6094  N   CYS B 242     -23.937  23.352   4.958  1.00 20.83      B
ATOM   6095  CA  CYS B 242     -23.299  23.125   6.244  1.00 19.52      B
ATOM   6096  CB  CYS B 242     -23.814  21.840   6.875  1.00 18.89      B
ATOM   6097  SG  CYS B 242     -25.372  22.063   7.732  1.00 24.51      B
ATOM   6098  C   CYS B 242     -21.788  23.050   6.088  1.00 19.01      B
ATOM   6099  O   CYS B 242     -21.054  23.205   7.061  1.00 18.68      B
ATOM   6100  N   CYS B 243     -21.332  22.816   4.862  1.00 18.46      B
ATOM   6101  CA  CYS B 243     -19.909  22.715   4.569  1.00 21.22      B
ATOM   6102  CB  CYS B 243     -19.689  22.152   3.160  1.00 20.34      B
ATOM   6103  SG  CYS B 243     -20.460  20.556   2.841  1.00 24.56      B
ATOM   6104  C   CYS B 243     -19.260  24.090   4.645  1.00 22.57      B
ATOM   6105  O   CYS B 243     -19.955  25.102   4.674  1.00 23.21      B
ATOM   6106  N   ASP B 244     -17.930  24.118   4.694  1.00 22.46      B
ATOM   6107  CA  ASP B 244     -17.201  25.373   4.714  1.00 23.35      B
ATOM   6108  CB  ASP B 244     -15.855  25.215   5.427  1.00 22.79      B
ATOM   6109  CG  ASP B 244     -15.070  26.515   5.486  1.00 22.48      B
ATOM   6110  OD1 ASP B 244     -14.469  26.923   4.469  1.00 22.31      B
ATOM   6111  OD2 ASP B 244     -15.069  27.147   6.559  1.00 22.91      B
ATOM   6112  C   ASP B 244     -16.989  25.681   3.233  1.00 24.69      B
ATOM   6113  O   ASP B 244     -16.121  25.093   2.574  1.00 26.69      B
ATOM   6114  N   LEU B 245     -17.786  26.607   2.714  1.00 24.38      B
ATOM   6115  CA  LEU B 245     -17.734  26.952   1.302  1.00 24.07      B
ATOM   6116  CB  LEU B 245     -19.144  26.889   0.726  1.00 21.21      B
ATOM   6117  CG  LEU B 245     -19.839  25.550   0.923  1.00 18.49      B
ATOM   6118  CD1 LEU B 245     -21.320  25.728   0.786  1.00 21.24      B
ATOM   6119  CD2 LEU B 245     -19.317  24.557  -0.072  1.00 18.12      B
ATOM   6120  C   LEU B 245     -17.145  28.312   0.987  1.00 23.24      B
ATOM   6121  O   LEU B 245     -17.162  29.219   1.811  1.00 23.79      B
ATOM   6122  N   ALA B 246     -16.612  28.440  -0.219  1.00 22.79      B
ATOM   6123  CA  ALA B 246     -16.072  29.715  -0.657  1.00 23.23      B
ATOM   6124  CB  ALA B 246     -15.284  29.538  -1.945  1.00 20.84      B
ATOM   6125  C   ALA B 246     -17.291  30.629  -0.896  1.00 23.71      B
ATOM   6126  O   ALA B 246     -18.365  30.164  -1.323  1.00 22.45      B
ATOM   6127  N   PRO B 247     -17.151  31.936  -0.615  1.00 22.42      B
ATOM   6128  CD  PRO B 247     -16.009  32.692  -0.079  1.00 21.06      B
ATOM   6129  CA  PRO B 247     -18.282  32.831  -0.829  1.00 22.25      B
ATOM   6130  CB  PRO B 247     -17.632  34.205  -0.765  1.00 20.76      B
ATOM   6131  CG  PRO B 247     -16.655  34.013   0.302  1.00 19.17      B
ATOM   6132  C   PRO B 247     -19.036  32.574  -2.129  1.00 22.43      B
ATOM   6133  O   PRO B 247     -20.246  32.373  -2.108  1.00 24.40      B
ATOM   6134  N   GLU B 248     -18.340  32.550  -3.257  1.00 22.02      B
ATOM   6135  CA  GLU B 248     -19.041  32.337  -4.508  1.00 22.69      B
ATOM   6136  CB  GLU B 248     -18.138  32.715  -5.673  1.00 23.99      B
ATOM   6137  CG  GLU B 248     -17.750  34.176  -5.661  1.00 24.07      B
ATOM   6138  CD  GLU B 248     -17.085  34.607  -6.941  1.00 26.12      B
ATOM   6139  OE1 GLU B 248     -16.744  33.719  -7.756  1.00 25.39      B
ATOM   6140  OE2 GLU B 248     -16.901  35.833  -7.130  1.00 28.35      B
ATOM   6141  C   GLU B 248     -19.588  30.920  -4.667  1.00 23.59      B
ATOM   6142  O   GLU B 248     -20.535  30.693  -5.420  1.00 25.19      B
ATOM   6143  N   ALA B 249     -19.005  29.965  -3.957  1.00 23.15      B
ATOM   6144  CA  ALA B 249     -19.489  28.599  -4.037  1.00 21.33      B
ATOM   6145  CB  ALA B 249     -18.498  27.664  -3.400  1.00 20.82      B
ATOM   6146  C   ALA B 249     -20.807  28.571  -3.278  1.00 22.03      B
ATOM   6147  O   ALA B 249     -21.816  28.051  -3.748  1.00 21.54      B
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ATOM   6148  N   ARG B 250     -20.804  29.160  -2.095  1.00 22.59      B
ATOM   6149  CA  ARG B 250     -22.014  29.181  -1.302  1.00 23.29      B
ATOM   6150  CB  ARG B 250     -21.776  29.955  -0.008  1.00 23.90      B
ATOM   6151  CG  ARG B 250     -22.879  29.790   1.013  1.00 26.71      B
ATOM   6152  CD  ARG B 250     -22.503  30.402   2.355  1.00 25.86      B
ATOM   6153  NE  ARG B 250     -21.427  29.684   3.029  1.00 24.74      B
ATOM   6154  CZ  ARG B 250     -21.587  28.590   3.766  1.00 25.75      B
ATOM   6155  NH1 ARG B 250     -22.791  28.059   3.939  1.00 24.65      B
ATOM   6156  NH2 ARG B 250     -20.532  28.040   4.351  1.00 26.82      B
ATOM   6157  C   ARG B 250     -23.162  29.802  -2.086  1.00 23.70      B
ATOM   6158  O   ARG B 250     -24.294  29.338  -1.993  1.00 23.39      B
ATOM   6159  N   GLN B 251     -22.873  30.838  -2.873  1.00 24.22      B
ATOM   6160  CA  GLN B 251     -23.918  31.504  -3.654  1.00 23.62      B
ATOM   6161  CB  GLN B 251     -23.482  32.899  -4.086  1.00 22.35      B
ATOM   6162  CG  GLN B 251     -24.550  33.628  -4.911  1.00 22.26      B
ATOM   6163  CD  GLN B 251     -25.758  34.032  -4.083  1.00 23.37      B
ATOM   6164  OE1 GLN B 251     -26.901  33.740  -4.434  1.00 24.45      B
ATOM   6165  NE2 GLN B 251     -25.509  34.710  -2.981  1.00 22.19      B
ATOM   6166  C   GLN B 251     -24.329  30.720  -4.894  1.00 24.81      B
ATOM   6167  O   GLN B 251     -25.510  30.693  -5.252  1.00 23.72      B
ATOM   6168  N   ALA B 252     -23.353  30.103  -5.558  1.00 24.34      B
ATOM   6169  CA  ALA B 252     -23.634  29.315  -6.754  1.00 22.92      B
ATOM   6170  CB  ALA B 252     -22.339  28.777  -7.351  1.00 20.58      B
ATOM   6171  C   ALA B 252     -24.566  28.164  -6.391  1.00 21.61      B
ATOM   6172  O   ALA B 252     -25.487  27.836  -7.142  1.00 21.86      B
ATOM   6173  N   ILE B 253     -24.322  27.558  -5.235  1.00 19.63      B
ATOM   6174  CA  ILE B 253     -25.139  26.442  -4.774  1.00 19.39      B
ATOM   6175  CB  ILE B 253     -24.523  25.825  -3.480  1.00 19.31      B
ATOM   6176  CG2 ILE B 253     -25.524  24.929  -2.785  1.00 18.94      B
ATOM   6177  CG1 ILE B 253     -23.255  25.044  -3.844  1.00 18.20      B
ATOM   6178  CD1 ILE B 253     -22.313  24.791  -2.688  1.00 17.19      B
ATOM   6179  C   ILE B 253     -26.576  26.908  -4.535  1.00 18.09      B
ATOM   6180  O   ILE B 253     -27.530  26.216  -4.886  1.00 15.97      B
ATOM   6181  N   ARG B 254     -26.707  28.096  -3.948  1.00 18.29      B
ATOM   6182  CA  ARG B 254     -28.000  28.720  -3.647  1.00 17.48      B
ATOM   6183  CB  ARG B 254     -27.736  30.049  -2.941  1.00 14.88      B
ATOM   6184  CG  ARG B 254     -28.946  30.822  -2.498  1.00 17.07      B
ATOM   6185  CD  ARG B 254     -29.520  30.271  -1.207  1.00 19.99      B
ATOM   6186  NE  ARG B 254     -30.420  29.135  -1.397  1.00 18.20      B
ATOM   6187  CZ  ARG B 254     -31.671  29.247  -1.828  1.00 19.52      B
ATOM   6188  NH1 ARG B 254     -32.180  30.443  -2.113  1.00 20.65      B
ATOM   6189  NH2 ARG B 254     -32.416  28.162  -1.981  1.00 19.68      B
ATOM   6190  C   ARG B 254     -28.807  28.953  -4.944  1.00 18.01      B
ATOM   6191  O   ARG B 254     -29.986  28.607  -5.033  1.00 18.58      B
ATOM   6192  N   SER B 255     -28.150  29.528  -5.947  1.00 17.36      B
ATOM   6193  CA  SER B 255     -28.769  29.822  -7.230  1.00 15.85      B
ATOM   6194  CB  SER B 255     -27.831  30.692  -8.059  1.00 14.50      B
ATOM   6195  OG  SER B 255     -27.682  31.964  -7.459  1.00 14.64      B
ATOM   6196  C   SER B 255     -29.155  28.586  -8.030  1.00 16.93      B
ATOM   6197  O   SER B 255     -30.251  28.502  -8.576  1.00 16.90      B
ATOM   6198  N   LEU B 256     -28.244  27.631  -8.117  1.00 17.49      B
ATOM   6199  CA  LEU B 256     -28.520  26.409  -8.850  1.00 17.00      B
ATOM   6200  CB  LEU B 256     -27.295  25.506  -8.850  1.00 15.32      B
ATOM   6201  CG  LEU B 256     -26.057  26.089  -9.526  1.00 14.53      B
ATOM   6202  CD1 LEU B 256     -24.866  25.247  -9.142  1.00 12.79      B
ATOM   6203  CD2 LEU B 256     -26.246  26.136 -11.026  1.00  8.28      B
ATOM   6204  C   LEU B 256     -29.683  25.676  -8.212  1.00 19.19      B
ATOM   6205  O   LEU B 256     -30.395  24.935  -8.890  1.00 22.16      B
ATOM   6206  N   THR B 257     -29.875  25.877  -6.911  1.00 18.81      B
ATOM   6207  CA  THR B 257     -30.958  25.219  -6.203  1.00 19.00      B
ATOM   6208  CB  THR B 257     -30.843  25.441  -4.675  1.00 19.61      B
ATOM   6209  OG1 THR B 257     -29.693  24.752  -4.171  1.00 19.75      B
ATOM   6210  CG2 THR B 257     -32.072  24.914  -3.960  1.00 17.63      B
ATOM   6211  C   THR B 257     -32.296  25.760  -6.690  1.00 21.08      B
ATOM   6212  O   THR B 257     -33.163  25.000  -7.117  1.00 22.65      B
ATOM   6213  N   GLU B 258     -32.461  27.077  -6.641  1.00 21.12      B
ATOM   6214  CA  GLU B 258     -33.712  27.696  -7.071  1.00 21.71      B
ATOM   6215  CB  GLU B 258     -33.796  29.131  -6.535  1.00 21.80      B
ATOM   6216  CG  GLU B 258     -33.841  29.260  -5.010  1.00 21.94      B
ATOM   6217  CD  GLU B 258     -35.006  28.513  -4.375  1.00 21.31      B
ATOM   6218  OE1 GLU B 258     -36.100  28.509  -4.966  1.00 20.92      B
ATOM   6219  OE2 GLU B 258     -34.833  27.946  -3.275  1.00 21.93      B
ATOM   6220  C   GLU B 258     -33.924  27.729  -8.585  1.00 21.79      B
ATOM   6221  O   GLU B 258     -35.043  27.573  -9.064  1.00 22.13      B
ATOM   6222  N   ARG B 259     -32.842  27.920  -9.334  1.00 22.11      B
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ATOM   6223  CA  ARG B 259     -32.912  28.043 -10.788  1.00 21.26      B
ATOM   6224  CB  ARG B 259     -31.836  29.035 -11.255  1.00 20.53      B
ATOM   6225  CG  ARG B 259     -31.956  30.418 -10.628  1.00 19.76      B
ATOM   6226  CD  ARG B 259     -30.779  31.297 -11.004  1.00 19.00      B
ATOM   6227  NE  ARG B 259     -30.677  31.457 -12.450  1.00 20.99      B
ATOM   6228  CZ  ARG B 259     -29.772  32.212 -13.064  1.00 19.53      B
ATOM   6229  NH1 ARG B 259     -28.877  32.892 -12.364  1.00 19.84      B
ATOM   6230  NH2 ARG B 259     -29.755  32.277 -14.383  1.00 16.70      B
ATOM   6231  C   ARG B 259     -32.822  26.766 -11.627  1.00 22.01      B
ATOM   6232  O   ARG B 259     -33.202  26.767 -12.811  1.00 22.35      B
ATOM   6233  N   LEU B 260     -32.337  25.677 -11.036  1.00 20.38      B
ATOM   6234  CA  LEU B 260     -32.202  24.440 -11.796  1.00 19.20      B
ATOM   6235  CB  LEU B 260     -30.734  24.226 -12.170  1.00 18.83      B
ATOM   6236  CG  LEU B 260     -30.378  23.023 -13.051  1.00 18.68      B
ATOM   6237  CD1 LEU B 260     -30.915  23.249 -14.453  1.00 19.35      B
ATOM   6238  CD2 LEU B 260     -28.874  22.837 -13.081  1.00 16.29      B
ATOM   6239  C   LEU B 260     -32.713  23.219 -11.047  1.00 19.95      B
ATOM   6240  O   LEU B 260     -33.562  22.475 -11.548  1.00 19.96      B
ATOM   6241  N   TYR B 261     -32.204  23.030  -9.833  1.00 18.71      B
ATOM   6242  CA  TYR B 261     -32.559  21.885  -9.010  1.00 15.35      B
ATOM   6243  CB  TYR B 261     -31.637  21.831  -7.806  1.00 13.81      B
ATOM   6244  CG  TYR B 261     -30.171  21.790  -8.173  1.00 12.93      B
ATOM   6245  CD1 TYR B 261     -29.743  21.181  -9.346  1.00 13.36      B
ATOM   6246  CE1 TYR B 261     -28.388  21.118  -9.672  1.00 13.47      B
ATOM   6247  CD2 TYR B 261     -29.206  22.336  -7.331  1.00 12.97      B
ATOM   6248  CE2 TYR B 261     -27.857  22.274  -7.648  1.00 11.39      B
ATOM   6249  CZ  TYR B 261     -27.452  21.665  -8.816  1.00 12.37      B
ATOM   6250  OH  TYR B 261     -26.101  21.591  -9.115  1.00 14.01      B
ATOM   6251  C   TYR B 261     -34.003  21.692  -8.564  1.00 15.77      B
ATOM   6252  O   TYR B 261     -34.449  20.560  -8.539  1.00 17.32      B
ATOM   6253  N   ILE B 262     -34.745  22.742  -8.208  1.00 16.34      B
ATOM   6254  CA  ILE B 262     -36.139  22.528  -7.792  1.00 18.02      B
ATOM   6255  CB  ILE B 262     -36.695  23.657  -6.869  1.00 18.41      B
ATOM   6256  CG2 ILE B 262     -36.001  23.642  -5.526  1.00 20.49      B
ATOM   6257  CG1 ILE B 262     -36.556  25.003  -7.550  1.00 17.70      B
ATOM   6258  CD1 ILE B 262     -36.984  26.147  -6.692  1.00 20.99      B
ATOM   6259  C   ILE B 262     -37.075  22.426  -8.993  1.00 19.22      B
ATOM   6260  O   ILE B 262     -38.282  22.198  -8.839  1.00 20.28      B
ATOM   6261  N   GLY B 263     -36.529  22.602 -10.191  1.00 19.27      B
ATOM   6262  CA  GLY B 263     -37.362  22.500 -11.373  1.00 20.47      B
ATOM   6263  C   GLY B 263     -37.034  23.582 -12.373  1.00 21.14      B
ATOM   6264  O   GLY B 263     -36.065  24.309 -12.196  1.00 22.13      B
ATOM   6265  N   GLY B 264     -37.847  23.695 -13.418  1.00 21.73      B
ATOM   6266  CA  GLY B 264     -37.614  24.694 -14.442  1.00 21.13      B
ATOM   6267  C   GLY B 264     -38.206  24.216 -15.744  1.00 21.31      B
ATOM   6268  O   GLY B 264     -38.718  23.102 -15.801  1.00 23.09      B
ATOM   6269  N   PRO B 265     -38.137  25.016 -16.816  1.00 21.16      B
ATOM   6270  CD  PRO B 265     -37.473  26.325 -16.873  1.00 20.26      B
ATOM   6271  CA  PRO B 265     -38.681  24.662 -18.136  1.00 21.39      B
ATOM   6272  CB  PRO B 265     -38.559  25.965 -18.909  1.00 18.74      B
ATOM   6273  CG  PRO B 265     -37.312  26.527 -18.367  1.00 20.47      B
ATOM   6274  C   PRO B 265     -38.008  23.491 -18.864  1.00 21.74      B
ATOM   6275  O   PRO B 265     -36.791  23.342 -18.840  1.00 21.67      B
ATOM   6276  N   LEU B 266     -38.827  22.675 -19.524  1.00 23.36      B
ATOM   6277  CA  LEU B 266     -38.354  21.510 -20.270  1.00 23.52      B
ATOM   6278  CB  LEU B 266     -39.246  20.301 -19.945  1.00 23.76      B
ATOM   6279  CG  LEU B 266     -39.316  19.854 -18.480  1.00 23.68      B
ATOM   6280  CD1 LEU B 266     -40.532  18.974 -18.279  1.00 24.97      B
ATOM   6281  CD2 LEU B 266     -38.047  19.123 -18.089  1.00 21.73      B
ATOM   6282  C   LEU B 266     -38.365  21.774 -21.782  1.00 22.57      B
ATOM   6283  O   LEU B 266     -39.391  22.117 -22.347  1.00 21.55      B
ATOM   6284  N   THR B 267     -37.221  21.611 -22.435  1.00 23.37      B
ATOM   6285  CA  THR B 267     -37.140  21.837 -23.875  1.00 24.51      B
ATOM   6286  CB  THR B 267     -36.112  22.940 -24.215  1.00 22.79      B
ATOM   6287  OG1 THR B 267     -36.462  24.150 -23.531  1.00 23.41      B
ATOM   6288  CG2 THR B 267     -36.098  23.200 -25.707  1.00 19.01      B
ATOM   6289  C   THR B 267     -36.755  20.584 -24.660  1.00 25.86      B
ATOM   6290  O   THR B 267     -35.766  19.922 -24.329  1.00 25.31      B
ATOM   6291  N   ASN B 268     -37.535  20.263 -25.696  1.00 26.77      B
ATOM   6292  CA  ASN B 268     -37.227  19.102 -26.520  1.00 28.74      B
ATOM   6293  CB  ASN B 268     -38.446  18.654 -27.364  1.00 28.44      B
ATOM   6294  CG  ASN B 268     -38.925  19.718 -28.366  1.00 30.72      B
ATOM   6295  OD1 ASN B 268     -38.165  20.591 -28.805  1.00 27.75      B
ATOM   6296  ND2 ASN B 268     -40.197  19.622 -28.748  1.00 28.89      B
ATOM   6297  C   ASN B 268     -36.036  19.438 -27.422  1.00 29.89      B
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ATOM   6298  O   ASN B 268     -35.627  20.592 -27.524  1.00 28.99      B
ATOM   6299  N   SER B 269     -35.463  18.430 -28.060  1.00 32.11      B
ATOM   6300  CA  SER B 269     -34.328  18.662 -28.938  1.00 33.36      B
ATOM   6301  CB  SER B 269     -33.895  17.347 -29.593  1.00 34.42      B
ATOM   6302  OG  SER B 269     -34.960  16.758 -30.333  1.00 36.37      B
ATOM   6303  C   SER B 269     -34.625  19.707 -30.015  1.00 34.36      B
ATOM   6304  O   SER B 269     -33.699  20.308 -30.551  1.00 35.83      B
ATOM   6305  N   LYS B 270     -35.901  19.930 -30.335  1.00 34.96      B
ATOM   6306  CA  LYS B 270     -36.271  20.922 -31.357  1.00 35.75      B
ATOM   6307  CB  LYS B 270     -37.681  20.662 -31.897  1.00 38.44      B
ATOM   6308  CG  LYS B 270     -37.828  19.610 -32.979  1.00 41.32      B
ATOM   6309  CD  LYS B 270     -39.237  19.730 -33.567  1.00 45.92      B
ATOM   6310  CE  LYS B 270     -39.757  18.412 -34.155  1.00 49.48      B
ATOM   6311  NZ  LYS B 270     -41.250  18.435 -34.378  1.00 49.94      B
ATOM   6312  C   LYS B 270     -36.239  22.381 -30.882  1.00 34.49      B
ATOM   6313  O   LYS B 270     -36.295  23.304 -31.692  1.00 34.31      B
ATOM   6314  N   GLY B 271     -36.173  22.596 -29.577  1.00 33.27      B
ATOM   6315  CA  GLY B 271     -36.170  23.955 -29.077  1.00 30.61      B
ATOM   6316  C   GLY B 271     -37.588  24.369 -28.731  1.00 29.80      B
ATOM   6317  O   GLY B 271     -37.901  25.561 -28.640  1.00 29.25      B
ATOM   6318  N   GLN B 272     -38.453  23.374 -28.550  1.00 28.56      B
ATOM   6319  CA  GLN B 272     -39.843  23.626 -28.202  1.00 26.99      B
ATOM   6320  CB  GLN B 272     -40.776  22.773 -29.055  1.00 25.18      B
ATOM   6321  CG  GLN B 272     -40.653  23.027 -30.534  1.00 26.26      B
ATOM   6322  CD  GLN B 272     -41.534  22.105 -31.352  1.00 27.88      B
ATOM   6323  OE1 GLN B 272     -41.353  20.887 -31.355  1.00 27.17      B
ATOM   6324  NE2 GLN B 272     -42.501  22.685 -32.050  1.00 29.85      B
ATOM   6325  C   GLN B 272     -40.092  23.337 -26.728  1.00 26.39      B
ATOM   6326  O   GLN B 272     -39.530  22.408 -26.143  1.00 25.19      B
ATOM   6327  N   ASN B 273     -40.946  24.156 -26.144  1.00 25.04      B
ATOM   6328  CA  ASN B 273     -41.305  24.045 -24.751  1.00 25.74      B
ATOM   6329  CB  ASN B 273     -41.960  25.345 -24.316  1.00 24.98      B
ATOM   6330  CG  ASN B 273     -42.293  25.363 -22.861  1.00 26.05      B
ATOM   6331  OD1 ASN B 273     -42.907  26.301 -22.388  1.00 29.10      B
ATOM   6332  ND2 ASN B 273     -41.889  24.328 -22.132  1.00 26.07      B
ATOM   6333  C   ASN B 273     -42.249  22.880 -24.499  1.00 26.42      B
ATOM   6334  O   ASN B 273     -43.406  22.907 -24.898  1.00 30.01      B
ATOM   6335  N   CYS B 274     -41.760  21.861 -23.820  1.00 26.33      B
ATOM   6336  CA  CYS B 274     -42.576  20.706 -23.528  1.00 27.22      B
ATOM   6337  CB  CYS B 274     -41.699  19.472 -23.397  1.00 28.13      B
ATOM   6338  SG  CYS B 274     -40.959  19.036 -24.928  1.00 36.39      B
ATOM   6339  C   CYS B 274     -43.371  20.870 -22.260  1.00 26.82      B
ATOM   6340  O   CYS B 274     -44.445  20.288 -22.121  1.00 29.77      B
ATOM   6341  N   GLY B 275     -42.836  21.640 -21.325  1.00 25.99      B
ATOM   6342  CA  GLY B 275     -43.523  21.831 -20.071  1.00 25.48      B
ATOM   6343  C   GLY B 275     -42.603  22.271 -18.959  1.00 26.18      B
ATOM   6344  O   GLY B 275     -41.540  22.843 -19.203  1.00 26.76      B
ATOM   6345  N   TYR B 276     -43.004  21.987 -17.727  1.00 25.21      B
ATOM   6346  CA  TYR B 276     -42.230  22.407 -16.577  1.00 23.92      B
ATOM   6347  CB  TYR B 276     -43.037  23.422 -15.777  1.00 23.19      B
ATOM   6348  CG  TYR B 276     -42.188  24.374 -14.988  1.00 24.73      B
ATOM   6349  CD1 TYR B 276     -41.657  25.519 -15.587  1.00 24.41      B
ATOM   6350  CE1 TYR B 276     -40.819  26.376 -14.888  1.00 23.61      B
ATOM   6351  CD2 TYR B 276     -41.866  24.109 -13.658  1.00 24.51      B
ATOM   6352  CE2 TYR B 276     -41.032  24.961 -12.947  1.00 26.04      B
ATOM   6353  CZ  TYR B 276     -40.511  26.093 -13.568  1.00 25.93      B
ATOM   6354  OH  TYR B 276     -39.691  26.939 -12.859  1.00 25.73      B
ATOM   6355  C   TYR B 276     -41.889  21.227 -15.688  1.00 24.32      B
ATOM   6356  O   TYR B 276     -42.556  20.199 -15.744  1.00 26.40      B
ATOM   6357  N   ARG B 277     -40.860  21.387 -14.860  1.00 22.79      B
ATOM   6358  CA  ARG B 277     -40.434  20.337 -13.945  1.00 22.27      B
ATOM   6359  CB  ARG B 277     -39.039  19.827 -14.330  1.00 21.28      B
ATOM   6360  CG  ARG B 277     -38.419  18.847 -13.333  1.00 23.15      B
ATOM   6361  CD  ARG B 277     -36.992  18.466 -13.729  1.00 22.81      B
ATOM   6362  NE  ARG B 277     -36.173  19.650 -14.006  1.00 23.96      B
ATOM   6363  CZ  ARG B 277     -35.425  20.298 -13.112  1.00 20.38      B
ATOM   6364  NH1 ARG B 277     -35.356  19.899 -11.849  1.00 15.24      B
ATOM   6365  NH2 ARG B 277     -34.754  21.367 -13.495  1.00 19.95      B
ATOM   6366  C   ARG B 277     -40.410  20.845 -12.506  1.00 23.13      B
ATOM   6367  O   ARG B 277     -40.024  21.988 -12.250  1.00 21.86      B
ATOM   6368  N   ARG B 278     -40.824  19.993 -11.570  1.00 23.45      B
ATOM   6369  CA  ARG B 278     -40.826  20.360 -10.163  1.00 24.13      B
ATOM   6370  CB  ARG B 278     -42.235  20.709  -9.703  1.00 23.92      B
ATOM   6371  CG  ARG B 278     -42.902  21.710 -10.616  1.00 24.43      B
ATOM   6372  CD  ARG B 278     -44.054  22.428  -9.956  1.00 21.15      B
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ATOM   6373  NE  ARG B 278     -44.700  23.290 -10.930  1.00 22.71      B
ATOM   6374  CZ  ARG B 278     -45.396  22.838 -11.967  1.00 22.25      B
ATOM   6375  NH1 ARG B 278     -45.542  21.528 -12.156  1.00 22.00      B
ATOM   6376  NH2 ARG B 278     -45.927  23.691 -12.828  1.00 20.10      B
ATOM   6377  C   ARG B 278     -40.273  19.233  -9.311  1.00 25.29      B
ATOM   6378  O   ARG B 278     -40.562  19.143  -8.115  1.00 26.28      B
ATOM   6379  N   CYS B 279     -39.473  18.376  -9.936  1.00 24.56      B
ATOM   6380  CA  CYS B 279     -38.863  17.249  -9.240  1.00 24.76      B
ATOM   6381  CB  CYS B 279     -39.657  15.963  -9.518  1.00 25.76      B
ATOM   6382  SG  CYS B 279     -39.654  15.431 -11.250  1.00 21.50      B
ATOM   6383  C   CYS B 279     -37.403  17.059  -9.670  1.00 24.32      B
ATOM   6384  O   CYS B 279     -36.840  17.886 -10.382  1.00 24.59      B
ATOM   6385  N   ARG B 280     -36.800  15.955  -9.248  1.00 22.33      B
ATOM   6386  CA  ARG B 280     -35.417  15.678  -9.584  1.00 21.95      B
ATOM   6387  CB  ARG B 280     -34.988  14.349  -8.959  1.00 21.54      B
ATOM   6388  CG  ARG B 280     -33.530  13.986  -9.208  1.00 21.68      B
ATOM   6389  CD  ARG B 280     -32.606  14.831  -8.355  1.00 21.63      B
ATOM   6390  NE  ARG B 280     -32.593  14.395  -6.957  1.00 23.05      B
ATOM   6391  CZ  ARG B 280     -32.270  15.179  -5.930  1.00 23.57      B
ATOM   6392  NH1 ARG B 280     -31.941  16.447  -6.152  1.00 21.43      B
ATOM   6393  NH2 ARG B 280     -32.269  14.701  -4.686  1.00 19.94      B
ATOM   6394  C   ARG B 280     -35.131  15.639 -11.082  1.00 22.64      B
ATOM   6395  O   ARG B 280     -35.847  15.004 -11.851  1.00 23.36      B
ATOM   6396  N   ALA B 281     -34.077  16.338 -11.489  1.00 22.89      B
ATOM   6397  CA  ALA B 281     -33.638  16.336 -12.880  1.00 23.18      B
ATOM   6398  CB  ALA B 281     -33.051  17.680 -13.253  1.00 22.22      B
ATOM   6399  C   ALA B 281     -32.551  15.258 -12.917  1.00 24.11      B
ATOM   6400  O   ALA B 281     -31.557  15.342 -12.199  1.00 24.21      B
ATOM   6401  N   SER B 282     -32.749  14.237 -13.736  1.00 24.86      B
ATOM   6402  CA  SER B 282     -31.798  13.135 -13.833  1.00 24.84      B
ATOM   6403  CB  SER B 282     -32.322  12.099 -14.819  1.00 24.79      B
ATOM   6404  OG  SER B 282     -32.569  12.700 -16.083  1.00 28.64      B
ATOM   6405  C   SER B 282     -30.390  13.530 -14.256  1.00 25.10      B
ATOM   6406  O   SER B 282     -29.424  12.852 -13.899  1.00 25.61      B
ATOM   6407  N   GLY B 283     -30.276  14.623 -15.007  1.00 24.69      B
ATOM   6408  CA  GLY B 283     -28.979  15.044 -15.499  1.00 24.86      B
ATOM   6409  C   GLY B 283     -28.214  16.197 -14.865  1.00 26.23      B
ATOM   6410  O   GLY B 283     -27.555  16.960 -15.583  1.00 27.70      B
ATOM   6411  N   VAL B 284     -28.291  16.353 -13.547  1.00 24.35      B
ATOM   6412  CA  VAL B 284     -27.531  17.407 -12.886  1.00 24.40      B
ATOM   6413  CB  VAL B 284     -28.419  18.328 -12.012  1.00 25.38      B
ATOM   6414  CG1 VAL B 284     -29.321  19.151 -12.911  1.00 25.14      B
ATOM   6415  CG2 VAL B 284     -29.225  17.508 -10.995  1.00 23.47      B
ATOM   6416  C   VAL B 284     -26.487  16.713 -12.015  1.00 23.84      B
ATOM   6417  O   VAL B 284     -26.622  15.529 -11.712  1.00 25.48      B
ATOM   6418  N   LEU B 285     -25.452  17.435 -11.608  1.00 21.36      B
ATOM   6419  CA  LEU B 285     -24.415  16.818 -10.812  1.00 21.92      B
ATOM   6420  CB  LEU B 285     -23.245  17.776 -10.652  1.00 19.45      B
ATOM   6421  CG  LEU B 285     -21.977  17.066 -10.189  1.00 18.93      B
ATOM   6422  CD1 LEU B 285     -21.875  15.724 -10.886  1.00 17.00      B
ATOM   6423  CD2 LEU B 285     -20.764  17.925 -10.491  1.00 19.18      B
ATOM   6424  C   LEU B 285     -24.876  16.349  -9.438  1.00 24.11      B
ATOM   6425  O   LEU B 285     -24.231  15.506  -8.806  1.00 25.97      B
ATOM   6426  N   THR B 286     -26.003  16.873  -8.976  1.00 23.58      B
ATOM   6427  CA  THR B 286     -26.478  16.508  -7.655  1.00 23.12      B
ATOM   6428  CB  THR B 286     -27.116  17.733  -6.966  1.00 23.82      B
ATOM   6429  OG1 THR B 286     -28.174  18.256  -7.783  1.00 25.37      B
ATOM   6430  CG2 THR B 286     -26.073  18.811  -6.762  1.00 24.45      B
ATOM   6431  C   THR B 286     -27.446  15.335  -7.616  1.00 22.55      B
ATOM   6432  O   THR B 286     -27.835  14.892  -6.534  1.00 20.46      B
ATOM   6433  N   THR B 287     -27.824  14.824  -8.785  1.00 21.19      B
ATOM   6434  CA  THR B 287     -28.762  13.708  -8.837  1.00 21.66      B
ATOM   6435  CB  THR B 287     -28.948  13.188 -10.280  1.00 20.59      B
ATOM   6436  OG1 THR B 287     -29.530  14.213 -11.088  1.00 24.14      B
ATOM   6437  CG2 THR B 287     -29.869  12.008 -10.299  1.00 18.91      B
ATOM   6438  C   THR B 287     -28.364  12.532  -7.936  1.00 21.38      B
ATOM   6439  O   THR B 287     -29.161  12.075  -7.114  1.00 20.47      B
ATOM   6440  N   SER B 288     -27.138  12.044  -8.072  1.00 21.41      B
ATOM   6441  CA  SER B 288     -26.723  10.916  -7.255  1.00 22.59      B
ATOM   6442  CB  SER B 288     -25.408  10.344  -7.759  1.00 22.61      B
ATOM   6443  OG  SER B 288     -25.192   9.078  -7.169  1.00 26.26      B
ATOM   6444  C   SER B 288     -26.590  11.256  -5.776  1.00 23.28      B
ATOM   6445  O   SER B 288     -27.174  10.588  -4.920  1.00 24.12      B
ATOM   6446  N   CYS B 289     -25.828  12.293  -5.470  1.00 23.35      B
ATOM   6447  CA  CYS B 289     -25.642  12.679  -4.080  1.00 25.42      B
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ATOM	6448	CB	CYS	B	289	-24.689	13.861	-4.001	1.00	26.09	B
ATOM	6449	SG	CYS	B	289	-24.505	14.448	-2.341	1.00	30.73	B
ATOM	6450	C	CYS	B	289	-26.949	13.021	-3.353	1.00	25.77	B
ATOM	6451	O	CYS	B	289	-27.177	12.583	-2.223	1.00	25.68	B
ATOM	6452	N	GLY	B	290	-27.797	13.810	-4.009	1.00	27.03	B
ATOM	6453	CA	GLY	B	290	-29.069	14.204	-3.431	1.00	26.57	B
ATOM	6454	C	GLY	B	290	-30.032	13.047	-3.256	1.00	27.92	B
ATOM	6455	O	GLY	B	290	-30.747	12.972	-2.252	1.00	27.98	B
ATOM	6456	N	ASN	B	291	-30.069	12.141	-4.229	1.00	28.41	B
ATOM	6457	CA	ASN	B	291	-30.961	10.995	-4.121	1.00	27.97	B
ATOM	6458	CB	ASN	B	291	-31.016	10.223	-5.437	1.00	28.19	B
ATOM	6459	CG	ASN	B	291	-31.804	10.956	-6.505	1.00	30.30	B
ATOM	6460	OD1	ASN	B	291	-32.311	12.049	-6.269	1.00	31.35	B
ATOM	6461	ND2	ASN	B	291	-31.913	10.358	-7.683	1.00	29.72	B
ATOM	6462	C	ASN	B	291	-30.464	10.106	-3.001	1.00	27.26	B
ATOM	6463	O	ASN	B	291	-31.243	9.653	-2.167	1.00	27.38	B
ATOM	6464	N	THR	B	292	-29.162	9.868	-2.965	1.00	25.83	B
ATOM	6465	CA	THR	B	292	-28.615	9.034	-1.911	1.00	26.01	B
ATOM	6466	CB	THR	B	292	-27.102	8.872	-2.050	1.00	25.27	B
ATOM	6467	OG1	THR	B	292	-26.815	8.212	-3.286	1.00	26.62	B
ATOM	6468	CG2	THR	B	292	-26.549	8.048	-0.910	1.00	23.00	B
ATOM	6469	C	THR	B	292	-28.920	9.637	-0.554	1.00	26.24	B
ATOM	6470	O	THR	B	292	-29.334	8.927	0.362	1.00	28.58	B
ATOM	6471	N	LEU	B	293	-28.727	10.948	-0.431	1.00	24.80	B
ATOM	6472	CA	LEU	B	293	-28.972	11.646	0.826	1.00	23.19	B
ATOM	6473	CB	LEU	B	293	-28.433	13.075	0.760	1.00	22.68	B
ATOM	6474	CG	LEU	B	293	-26.929	13.302	0.892	1.00	21.66	B
ATOM	6475	CD1	LEU	B	293	-26.591	14.711	0.451	1.00	22.16	B
ATOM	6476	CD2	LEU	B	293	-26.498	13.069	2.323	1.00	19.60	B
ATOM	6477	C	LEU	B	293	-30.442	11.699	1.185	1.00	22.92	B
ATOM	6478	O	LEU	B	293	-30.805	11.555	2.343	1.00	23.37	B
ATOM	6479	N	THR	B	294	-31.289	11.924	0.191	1.00	23.36	B
ATOM	6480	CA	THR	B	294	-32.721	12.014	0.425	1.00	22.82	B
ATOM	6481	CB	THR	B	294	-33.408	12.651	-0.790	1.00	21.91	B
ATOM	6482	OG1	THR	B	294	-32.881	13.969	-0.966	1.00	24.42	B
ATOM	6483	CG2	THR	B	294	-34.916	12.747	-0.593	1.00	19.62	B
ATOM	6484	C	THR	B	294	-33.340	10.655	0.744	1.00	23.43	B
ATOM	6485	O	THR	B	294	-34.251	10.560	1.571	1.00	22.13	B
ATOM	6486	N	CYS	B	295	-32.840	9.606	0.098	1.00	23.91	B
ATOM	6487	CA	CYS	B	295	-33.344	8.256	0.330	1.00	24.88	B
ATOM	6488	CB	CYS	B	295	-32.710	7.292	-0.664	1.00	25.94	B
ATOM	6489	SG	CYS	B	295	-33.330	5.603	-0.590	1.00	25.59	B
ATOM	6490	C	CYS	B	295	-32.961	7.864	1.748	1.00	25.68	B
ATOM	6491	O	CYS	B	295	-33.797	7.431	2.552	1.00	23.15	B
ATOM	6492	N	TYR	B	296	-31.681	8.034	2.052	1.00	26.30	B
ATOM	6493	CA	TYR	B	296	-31.172	7.720	3.375	1.00	26.20	B
ATOM	6494	CB	TYR	B	296	-29.697	8.127	3.453	1.00	25.82	B
ATOM	6495	CG	TYR	B	296	-29.087	8.022	4.825	1.00	29.06	B
ATOM	6496	CD1	TYR	B	296	-29.455	8.903	5.843	1.00	29.97	B
ATOM	6497	CE1	TYR	B	296	-28.895	8.811	7.109	1.00	30.97	B
ATOM	6498	CD2	TYR	B	296	-28.140	7.046	5.114	1.00	30.15	B
ATOM	6499	CE2	TYR	B	296	-27.570	6.948	6.381	1.00	29.87	B
ATOM	6500	CZ	TYR	B	296	-27.953	7.830	7.367	1.00	30.39	B
ATOM	6501	OH	TYR	B	296	-27.389	7.732	8.613	1.00	32.24	B
ATOM	6502	C	TYR	B	296	-32.019	8.429	4.439	1.00	26.10	B
ATOM	6503	O	TYR	B	296	-32.573	7.783	5.327	1.00	26.73	B
ATOM	6504	N	LEU	B	297	-32.140	9.748	4.335	1.00	25.57	B
ATOM	6505	CA	LEU	B	297	-32.921	10.511	5.302	1.00	26.99	B
ATOM	6506	CB	LEU	B	297	-33.032	11.983	4.869	1.00	25.10	B
ATOM	6507	CG	LEU	B	297	-34.015	12.907	5.617	1.00	23.84	B
ATOM	6508	CD1	LEU	B	297	-33.748	12.916	7.115	1.00	22.85	B
ATOM	6509	CD2	LEU	B	297	-33.896	14.306	5.059	1.00	23.73	B
ATOM	6510	C	LEU	B	297	-34.317	9.920	5.488	1.00	28.61	B
ATOM	6511	O	LEU	B	297	-34.713	9.573	6.607	1.00	31.00	B
ATOM	6512	N	LYS	B	298	-35.059	9.798	4.393	1.00	28.49	B
ATOM	6513	CA	LYS	B	298	-36.413	9.260	4.456	1.00	27.90	B
ATOM	6514	CB	LYS	B	298	-37.042	9.268	3.056	1.00	25.50	B
ATOM	6515	CG	LYS	B	298	-37.251	10.686	2.522	1.00	23.68	B
ATOM	6516	CD	LYS	B	298	-37.960	10.747	1.175	1.00	21.57	B
ATOM	6517	CE	LYS	B	298	-38.274	12.188	0.801	1.00	18.55	B
ATOM	6518	NZ	LYS	B	298	-38.959	12.316	-0.517	1.00	18.43	B
ATOM	6519	C	LYS	B	298	-36.446	7.859	5.065	1.00	27.99	B
ATOM	6520	O	LYS	B	298	-37.191	7.602	5.999	1.00	27.57	B
ATOM	6521	N	ALA	B	299	-35.621	6.961	4.551	1.00	29.28	B
ATOM	6522	CA	ALA	B	299	-35.586	5.595	5.065	1.00	31.37	B

ATOM	6523	CB	ALA	B	299	-34.581	4.764	4.271	1.00	31.80	B
ATOM	6524	C	ALA	B	299	-35.249	5.545	6.559	1.00	32.34	B
ATOM	6525	O	ALA	B	299	-36.034	5.014	7.355	1.00	31.10	B
ATOM	6526	N	THR	B	300	-34.092	6.093	6.941	1.00	33.06	B
ATOM	6527	CA	THR	B	300	-33.691	6.087	8.351	1.00	32.72	B
ATOM	6528	CB	THR	B	300	-32.452	6.982	8.626	1.00	30.57	B
ATOM	6529	OG1	THR	B	300	-31.287	6.407	8.029	1.00	30.14	B
ATOM	6530	CG2	THR	B	300	-32.217	7.104	10.118	1.00	27.43	B
ATOM	6531	C	THR	B	300	-34.834	6.584	9.237	1.00	33.73	B
ATOM	6532	O	THR	B	300	-35.110	6.000	10.285	1.00	33.54	B
ATOM	6533	N	ALA	B	301	-35.497	7.658	8.815	1.00	33.61	B
ATOM	6534	CA	ALA	B	301	-36.599	8.197	9.595	1.00	34.97	B
ATOM	6535	CB	ALA	B	301	-37.067	9.515	9.008	1.00	34.73	B
ATOM	6536	C	ALA	B	301	-37.743	7.191	9.606	1.00	36.72	B
ATOM	6537	O	ALA	B	301	-38.314	6.893	10.661	1.00	37.61	B
ATOM	6538	N	ALA	B	302	-38.068	6.665	8.430	1.00	36.87	B
ATOM	6539	CA	ALA	B	302	-39.142	5.696	8.305	1.00	37.18	B
ATOM	6540	CB	ALA	B	302	-39.267	5.235	6.872	1.00	36.08	B
ATOM	6541	C	ALA	B	302	-38.891	4.503	9.219	1.00	38.85	B
ATOM	6542	O	ALA	B	302	-39.832	3.973	9.820	1.00	40.89	B
ATOM	6543	N	CYS	B	303	-37.636	4.070	9.325	1.00	38.13	B
ATOM	6544	CA	CYS	B	303	-37.317	2.942	10.195	1.00	37.59	B
ATOM	6545	CB	CYS	B	303	-35.836	2.597	10.109	1.00	38.23	B
ATOM	6546	SG	CYS	B	303	-35.397	1.759	8.585	1.00	42.19	B
ATOM	6547	C	CYS	B	303	-37.687	3.264	11.639	1.00	37.91	B
ATOM	6548	O	CYS	B	303	-38.227	2.426	12.359	1.00	37.58	B
ATOM	6549	N	ARG	B	304	-37.401	4.487	12.064	1.00	37.69	B
ATOM	6550	CA	ARG	B	304	-37.733	4.888	13.416	1.00	38.03	B
ATOM	6551	CB	ARG	B	304	-37.140	6.263	13.730	1.00	36.02	B
ATOM	6552	CG	ARG	B	304	-35.630	6.279	13.688	1.00	33.31	B
ATOM	6553	CD	ARG	B	304	-35.091	7.551	14.271	1.00	31.54	B
ATOM	6554	NE	ARG	B	304	-33.654	7.677	14.071	1.00	31.42	B
ATOM	6555	CZ	ARG	B	304	-32.961	8.761	14.405	1.00	32.28	B
ATOM	6556	NH1	ARG	B	304	-33.583	9.801	14.957	1.00	29.78	B
ATOM	6557	NH2	ARG	B	304	-31.653	8.812	14.178	1.00	31.08	B
ATOM	6558	C	ARG	B	304	-39.247	4.914	13.596	1.00	39.14	B
ATOM	6559	O	ARG	B	304	-39.745	4.674	14.690	1.00	41.50	B
ATOM	6560	N	ALA	B	305	-39.981	5.204	12.528	1.00	39.09	B
ATOM	6561	CA	ALA	B	305	-41.432	5.239	12.620	1.00	39.56	B
ATOM	6562	CB	ALA	B	305	-42.016	5.903	11.401	1.00	39.12	B
ATOM	6563	C	ALA	B	305	-41.984	3.828	12.755	1.00	41.22	B
ATOM	6564	O	ALA	B	305	-43.004	3.617	13.403	1.00	41.68	B
ATOM	6565	N	ALA	B	306	-41.303	2.863	12.145	1.00	42.59	B
ATOM	6566	CA	ALA	B	306	-41.735	1.469	12.194	1.00	44.67	B
ATOM	6567	CB	ALA	B	306	-41.290	0.746	10.933	1.00	43.79	B
ATOM	6568	C	ALA	B	306	-41.181	0.757	13.424	1.00	47.00	B
ATOM	6569	O	ALA	B	306	-41.636	-0.325	13.799	1.00	48.06	B
ATOM	6570	N	LYS	B	307	-40.185	1.373	14.045	1.00	48.95	B
ATOM	6571	CA	LYS	B	307	-39.552	0.817	15.231	1.00	49.29	B
ATOM	6572	CB	LYS	B	307	-40.603	0.530	16.313	1.00	49.84	B
ATOM	6573	CG	LYS	B	307	-41.570	1.685	16.576	1.00	50.58	B
ATOM	6574	CD	LYS	B	307	-42.105	1.656	17.997	1.00	49.75	B
ATOM	6575	CE	LYS	B	307	-40.970	1.892	18.985	1.00	50.48	B
ATOM	6576	NZ	LYS	B	307	-41.385	1.740	20.408	1.00	52.11	B
ATOM	6577	C	LYS	B	307	-38.746	-0.450	14.930	1.00	48.91	B
ATOM	6578	O	LYS	B	307	-38.642	-1.341	15.770	1.00	50.54	B
ATOM	6579	N	LEU	B	308	-38.179	-0.539	13.732	1.00	48.44	B
ATOM	6580	CA	LEU	B	308	-37.357	-1.697	13.381	1.00	49.62	B
ATOM	6581	CB	LEU	B	308	-36.950	-1.630	11.907	1.00	47.59	B
ATOM	6582	CG	LEU	B	308	-38.098	-1.571	10.897	1.00	45.13	B
ATOM	6583	CD1	LEU	B	308	-37.557	-1.241	9.531	1.00	43.55	B
ATOM	6584	CD2	LEU	B	308	-38.823	-2.894	10.872	1.00	45.24	B
ATOM	6585	C	LEU	B	308	-36.112	-1.632	14.279	1.00	50.98	B
ATOM	6586	O	LEU	B	308	-35.572	-0.550	14.515	1.00	51.35	B
ATOM	6587	N	GLN	B	309	-35.653	-2.771	14.786	1.00	51.64	B
ATOM	6588	CA	GLN	B	309	-34.493	-2.751	15.668	1.00	53.04	B
ATOM	6589	CB	GLN	B	309	-34.639	-3.821	16.754	1.00	55.63	B
ATOM	6590	CG	GLN	B	309	-35.800	-3.551	17.700	1.00	58.79	B
ATOM	6591	CD	GLN	B	309	-35.737	-2.156	18.334	1.00	60.91	B
ATOM	6592	OE1	GLN	B	309	-35.685	-1.131	17.638	1.00	59.69	B
ATOM	6593	NE2	GLN	B	309	-35.751	-2.117	19.665	1.00	62.57	B
ATOM	6594	C	GLN	B	309	-33.171	-2.912	14.947	1.00	52.73	B
ATOM	6595	O	GLN	B	309	-33.095	-3.588	13.921	1.00	53.04	B
ATOM	6596	N	ASP	B	310	-32.135	-2.280	15.491	1.00	51.60	B
ATOM	6597	CA	ASP	B	310	-30.803	-2.341	14.902	1.00	52.24	B

ATOM	6598	CB	ASP	B	310	-30.035	-3.536	15.470	1.00	55.31	B
ATOM	6599	CG	ASP	B	310	-29.586	-3.317	16.910	1.00	59.11	B
ATOM	6600	OD1	ASP	B	310	-30.376	-2.749	17.702	1.00	59.24	B
ATOM	6601	OD2	ASP	B	310	-28.448	-3.730	17.248	1.00	60.51	B
ATOM	6602	C	ASP	B	310	-30.852	-2.453	13.380	1.00	50.77	B
ATOM	6603	O	ASP	B	310	-30.647	-3.537	12.835	1.00	50.77	B
ATOM	6604	N	CYS	B	311	-31.133	-1.343	12.699	1.00	48.73	B
ATOM	6605	CA	CYS	B	311	-31.195	-1.339	11.236	1.00	46.63	B
ATOM	6606	CB	CYS	B	311	-32.274	-0.366	10.729	1.00	44.67	B
ATOM	6607	SG	CYS	B	311	-33.980	-0.665	11.274	1.00	43.18	B
ATOM	6608	C	CYS	B	311	-29.853	-0.914	10.644	1.00	45.93	B
ATOM	6609	O	CYS	B	311	-29.178	-0.055	11.191	1.00	46.22	B
ATOM	6610	N	THR	B	312	-29.464	-1.521	9.530	1.00	45.02	B
ATOM	6611	CA	THR	B	312	-28.224	-1.143	8.865	1.00	44.83	B
ATOM	6612	CB	THR	B	312	-27.117	-2.189	9.062	1.00	44.70	B
ATOM	6613	OG1	THR	B	312	-26.641	-2.114	10.409	1.00	46.49	B
ATOM	6614	CG2	THR	B	312	-25.960	-1.938	8.097	1.00	41.78	B
ATOM	6615	C	THR	B	312	-28.509	-0.987	7.382	1.00	45.05	B
ATOM	6616	O	THR	B	312	-28.683	-1.975	6.661	1.00	45.45	B
ATOM	6617	N	MET	B	313	-28.554	0.257	6.924	1.00	43.75	B
ATOM	6618	CA	MET	B	313	-28.848	0.501	5.527	1.00	43.02	B
ATOM	6619	CB	MET	B	313	-29.738	1.731	5.386	1.00	44.77	B
ATOM	6620	CG	MET	B	313	-31.005	1.657	6.204	1.00	46.97	B
ATOM	6621	SD	MET	B	313	-32.070	3.042	5.825	1.00	49.75	B
ATOM	6622	CE	MET	B	313	-30.920	4.409	5.984	1.00	48.57	B
ATOM	6623	C	MET	B	313	-27.652	0.659	4.613	1.00	41.23	B
ATOM	6624	O	MET	B	313	-26.536	0.944	5.037	1.00	41.04	B
ATOM	6625	N	LEU	B	314	-27.921	0.444	3.337	1.00	40.03	B
ATOM	6626	CA	LEU	B	314	-26.943	0.591	2.285	1.00	39.23	B
ATOM	6627	CB	LEU	B	314	-26.443	-0.773	1.817	1.00	37.96	B
ATOM	6628	CG	LEU	B	314	-25.322	-0.729	0.777	1.00	37.09	B
ATOM	6629	CD1	LEU	B	314	-24.122	-0.024	1.373	1.00	37.89	B
ATOM	6630	CD2	LEU	B	314	-24.945	-2.135	0.347	1.00	34.82	B
ATOM	6631	C	LEU	B	314	-27.757	1.287	1.192	1.00	39.71	B
ATOM	6632	O	LEU	B	314	-28.688	0.710	0.623	1.00	39.57	B
ATOM	6633	N	VAL	B	315	-27.429	2.546	0.937	1.00	39.35	B
ATOM	6634	CA	VAL	B	315	-28.145	3.324	-0.058	1.00	38.18	B
ATOM	6635	CB	VAL	B	315	-28.647	4.655	0.551	1.00	39.01	B
ATOM	6636	CG1	VAL	B	315	-29.440	5.452	-0.480	1.00	37.93	B
ATOM	6637	CG2	VAL	B	315	-29.483	4.374	1.794	1.00	39.28	B
ATOM	6638	C	VAL	B	315	-27.265	3.651	-1.250	1.00	38.40	B
ATOM	6639	O	VAL	B	315	-26.115	4.070	-1.092	1.00	38.30	B
ATOM	6640	N	ASN	B	316	-27.808	3.433	-2.442	1.00	37.37	B
ATOM	6641	CA	ASN	B	316	-27.109	3.753	-3.680	1.00	37.79	B
ATOM	6642	CB	ASN	B	316	-26.761	2.496	-4.480	1.00	38.31	B
ATOM	6643	CG	ASN	B	316	-25.569	1.756	-3.918	1.00	37.60	B
ATOM	6644	OD1	ASN	B	316	-25.652	1.100	-2.875	1.00	38.29	B
ATOM	6645	ND2	ASN	B	316	-24.446	1.862	-4.604	1.00	37.50	B
ATOM	6646	C	ASN	B	316	-28.080	4.602	-4.473	1.00	37.73	B
ATOM	6647	O	ASN	B	316	-28.958	4.079	-5.147	1.00	38.18	B
ATOM	6648	N	GLY	B	317	-27.933	5.916	-4.383	1.00	37.72	B
ATOM	6649	CA	GLY	B	317	-28.845	6.781	-5.096	1.00	38.29	B
ATOM	6650	C	GLY	B	317	-30.237	6.537	-4.554	1.00	38.88	B
ATOM	6651	O	GLY	B	317	-30.516	6.820	-3.391	1.00	39.87	B
ATOM	6652	N	ASP	B	318	-31.115	5.991	-5.385	1.00	39.03	B
ATOM	6653	CA	ASP	B	318	-32.479	5.722	-4.951	1.00	39.79	B
ATOM	6654	CB	ASP	B	318	-33.469	6.109	-6.056	1.00	40.99	B
ATOM	6655	CG	ASP	B	318	-33.531	5.081	-7.166	1.00	41.99	B
ATOM	6656	OD1	ASP	B	318	-32.469	4.705	-7.700	1.00	41.08	B
ATOM	6657	OD2	ASP	B	318	-34.652	4.649	-7.503	1.00	45.00	B
ATOM	6658	C	ASP	B	318	-32.649	4.245	-4.609	1.00	38.36	B
ATOM	6659	O	ASP	B	318	-33.759	3.795	-4.331	1.00	37.19	B
ATOM	6660	N	ASP	B	319	-31.541	3.504	-4.629	1.00	38.16	B
ATOM	6661	CA	ASP	B	319	-31.543	2.067	-4.344	1.00	37.61	B
ATOM	6662	CB	ASP	B	319	-30.534	1.355	-5.244	1.00	39.96	B
ATOM	6663	CG	ASP	B	319	-30.942	-0.068	-5.558	1.00	43.16	B
ATOM	6664	OD1	ASP	B	319	-30.695	-0.970	-4.721	1.00	44.75	B
ATOM	6665	OD2	ASP	B	319	-31.529	-0.279	-6.643	1.00	45.55	B
ATOM	6666	C	ASP	B	319	-31.215	1.817	-2.884	1.00	36.10	B
ATOM	6667	O	ASP	B	319	-30.115	2.105	-2.419	1.00	36.05	B
ATOM	6668	N	LEU	B	320	-32.179	1.244	-2.180	1.00	34.82	B
ATOM	6669	CA	LEU	B	320	-32.060	1.008	-0.758	1.00	35.29	B
ATOM	6670	CB	LEU	B	320	-33.057	1.920	-0.058	1.00	33.71	B
ATOM	6671	CG	LEU	B	320	-33.423	1.610	1.382	1.00	33.61	B
ATOM	6672	CD1	LEU	B	320	-32.280	2.000	2.285	1.00	32.82	B

ATOM	6673	CD2	LEU	B	320	-34.687	2.374	1.737	1.00	34.61	B
ATOM	6674	C	LEU	B	320	-32.272	-0.434	-0.306	1.00	36.54	B
ATOM	6675	O	LEU	B	320	-33.034	-1.187	-0.904	1.00	36.00	B
ATOM	6676	N	VAL	B	321	-31.594	-0.797	0.777	1.00	38.28	B
ATOM	6677	CA	VAL	B	321	-31.686	-2.137	1.348	1.00	39.33	B
ATOM	6678	CB	VAL	B	321	-30.656	-3.096	0.705	1.00	38.61	B
ATOM	6679	CG1	VAL	B	321	-29.249	-2.553	0.893	1.00	36.37	B
ATOM	6680	CG2	VAL	B	321	-30.784	-4.479	1.322	1.00	38.08	B
ATOM	6681	C	VAL	B	321	-31.434	-2.078	2.854	1.00	40.35	B
ATOM	6682	O	VAL	B	321	-30.407	-1.575	3.299	1.00	40.43	B
ATOM	6683	N	VAL	B	322	-32.375	-2.601	3.632	1.00	41.45	B
ATOM	6684	CA	VAL	B	322	-32.265	-2.597	5.084	1.00	42.88	B
ATOM	6685	CB	VAL	B	322	-33.552	-2.054	5.721	1.00	42.47	B
ATOM	6686	CG1	VAL	B	322	-33.363	-1.894	7.218	1.00	42.45	B
ATOM	6687	CG2	VAL	B	322	-33.940	-0.756	5.069	1.00	42.74	B
ATOM	6688	C	VAL	B	322	-32.021	-3.988	5.673	1.00	44.44	B
ATOM	6689	O	VAL	B	322	-32.675	-4.955	5.287	1.00	45.88	B
ATOM	6690	N	ILE	B	323	-31.075	-4.087	6.598	1.00	45.27	B
ATOM	6691	CA	ILE	B	323	-30.797	-5.353	7.268	1.00	47.01	B
ATOM	6692	CB	ILE	B	323	-29.372	-5.859	6.976	1.00	45.60	B
ATOM	6693	CG2	ILE	B	323	-28.960	-6.907	7.990	1.00	45.69	B
ATOM	6694	CG1	ILE	B	323	-29.339	-6.469	5.576	1.00	45.50	B
ATOM	6695	CD1	ILE	B	323	-27.999	-7.034	5.176	1.00	44.73	B
ATOM	6696	C	ILE	B	323	-30.982	-5.050	8.744	1.00	49.37	B
ATOM	6697	O	ILE	B	323	-30.327	-4.160	9.289	1.00	48.25	B
ATOM	6698	N	CYS	B	324	-31.885	-5.781	9.390	1.00	52.12	B
ATOM	6699	CA	CYS	B	324	-32.183	-5.517	10.791	1.00	55.13	B
ATOM	6700	CB	CYS	B	324	-33.398	-4.614	10.864	1.00	54.98	B
ATOM	6701	SG	CYS	B	324	-34.783	-5.357	10.002	1.00	56.13	B
ATOM	6702	C	CYS	B	324	-32.435	-6.713	11.697	1.00	56.90	B
ATOM	6703	O	CYS	B	324	-32.538	-7.854	11.253	1.00	57.77	B
ATOM	6704	N	GLU	B	325	-32.558	-6.406	12.985	1.00	59.16	B
ATOM	6705	CA	GLU	B	325	-32.806	-7.392	14.027	1.00	60.53	B
ATOM	6706	CB	GLU	B	325	-32.398	-6.809	15.384	1.00	61.11	B
ATOM	6707	CG	GLU	B	325	-32.319	-7.833	16.488	1.00	63.86	B
ATOM	6708	CD	GLU	B	325	-31.294	-8.912	16.187	1.00	64.68	B
ATOM	6709	OE1	GLU	B	325	-30.084	-8.584	16.105	1.00	65.21	B
ATOM	6710	OE2	GLU	B	325	-31.705	-10.083	16.024	1.00	64.48	B
ATOM	6711	C	GLU	B	325	-34.294	-7.756	14.028	1.00	60.40	B
ATOM	6712	O	GLU	B	325	-35.138	-6.961	14.438	1.00	59.45	B
ATOM	6713	N	SER	B	326	-34.605	-8.961	13.564	1.00	61.56	B
ATOM	6714	CA	SER	B	326	-35.990	-9.412	13.494	1.00	63.07	B
ATOM	6715	CB	SER	B	326	-36.094	-10.750	12.765	1.00	62.41	B
ATOM	6716	OG	SER	B	326	-37.424	-11.235	12.820	1.00	60.35	B
ATOM	6717	C	SER	B	326	-36.655	-9.560	14.847	1.00	63.98	B
ATOM	6718	O	SER	B	326	-35.987	-9.770	15.857	1.00	64.26	B
ATOM	6719	N	ALA	B	327	-37.981	-9.445	14.847	1.00	64.83	B
ATOM	6720	CA	ALA	B	327	-38.780	-9.591	16.056	1.00	66.15	B
ATOM	6721	CB	ALA	B	327	-39.599	-8.341	16.310	1.00	64.91	B
ATOM	6722	C	ALA	B	327	-39.699	-10.787	15.841	1.00	67.39	B
ATOM	6723	O	ALA	B	327	-40.135	-11.431	16.796	1.00	68.62	B
ATOM	6724	N	GLY	B	328	-39.982	-11.079	14.575	1.00	67.86	B
ATOM	6725	CA	GLY	B	328	-40.835	-12.203	14.245	1.00	68.15	B
ATOM	6726	C	GLY	B	328	-41.707	-11.998	13.021	1.00	68.80	B
ATOM	6727	O	GLY	B	328	-42.329	-10.946	12.858	1.00	69.14	B
ATOM	6728	N	THR	B	329	-41.739	-13.017	12.164	1.00	68.76	B
ATOM	6729	CA	THR	B	329	-42.534	-13.019	10.937	1.00	68.90	B
ATOM	6730	CB	THR	B	329	-43.113	-14.426	10.670	1.00	68.20	B
ATOM	6731	OG1	THR	B	329	-42.045	-15.362	10.491	1.00	68.14	B
ATOM	6732	CG2	THR	B	329	-43.985	-14.419	9.431	1.00	68.03	B
ATOM	6733	C	THR	B	329	-43.706	-12.047	11.032	1.00	70.13	B
ATOM	6734	O	THR	B	329	-43.797	-11.060	10.299	1.00	70.39	B
ATOM	6735	N	GLN	B	330	-44.596	-12.349	11.967	1.00	70.84	B
ATOM	6736	CA	GLN	B	330	-45.794	-11.565	12.217	1.00	70.90	B
ATOM	6737	CB	GLN	B	330	-46.495	-12.099	13.474	1.00	72.81	B
ATOM	6738	CG	GLN	B	330	-46.374	-13.619	13.655	1.00	75.26	B
ATOM	6739	CD	GLN	B	330	-45.047	-14.056	14.285	1.00	76.24	B
ATOM	6740	OE1	GLN	B	330	-43.975	-13.562	13.925	1.00	77.75	B
ATOM	6741	NE2	GLN	B	330	-45.121	-15.001	15.223	1.00	75.86	B
ATOM	6742	C	GLN	B	330	-45.503	-10.080	12.391	1.00	69.09	B
ATOM	6743	O	GLN	B	330	-46.145	-9.235	11.771	1.00	68.43	B
ATOM	6744	N	GLU	B	331	-44.529	-9.781	13.243	1.00	67.71	B
ATOM	6745	CA	GLU	B	331	-44.141	-8.407	13.551	1.00	66.85	B
ATOM	6746	CB	GLU	B	331	-43.176	-8.391	14.733	1.00	68.14	B
ATOM	6747	CG	GLU	B	331	-43.746	-8.962	16.014	1.00	69.90	B

ATOM	6748	CD	GLU	B	331	-42.729	-9.825	16.737	1.00	71.34	B
ATOM	6749	OE1	GLU	B	331	-42.419	-10.918	16.211	1.00	71.62	B
ATOM	6750	OE2	GLU	B	331	-42.234	-9.412	17.813	1.00	71.83	B
ATOM	6751	C	GLU	B	331	-43.501	-7.667	12.392	1.00	64.58	B
ATOM	6752	O	GLU	B	331	-43.902	-6.552	12.056	1.00	64.57	B
ATOM	6753	N	ASP	B	332	-42.488	-8.281	11.800	1.00	61.78	B
ATOM	6754	CA	ASP	B	332	-41.798	-7.671	10.683	1.00	58.93	B
ATOM	6755	CB	ASP	B	332	-40.799	-8.655	10.091	1.00	56.81	B
ATOM	6756	CG	ASP	B	332	-39.894	-9.253	11.139	1.00	55.71	B
ATOM	6757	OD1	ASP	B	332	-39.728	-8.626	12.213	1.00	53.76	B
ATOM	6758	OD2	ASP	B	332	-39.343	-10.344	10.884	1.00	54.93	B
ATOM	6759	C	ASP	B	332	-42.791	-7.222	9.618	1.00	58.69	B
ATOM	6760	O	ASP	B	332	-42.792	-6.058	9.215	1.00	58.62	B
ATOM	6761	N	ALA	B	333	-43.638	-8.140	9.163	1.00	58.10	B
ATOM	6762	CA	ALA	B	333	-44.627	-7.801	8.145	1.00	57.41	B
ATOM	6763	CB	ALA	B	333	-45.669	-8.909	8.028	1.00	57.52	B
ATOM	6764	C	ALA	B	333	-45.301	-6.493	8.533	1.00	56.87	B
ATOM	6765	O	ALA	B	333	-45.467	-5.593	7.701	1.00	57.63	B
ATOM	6766	N	ALA	B	334	-45.678	-6.403	9.808	1.00	55.18	B
ATOM	6767	CA	ALA	B	334	-46.338	-5.223	10.353	1.00	53.89	B
ATOM	6768	CB	ALA	B	334	-46.745	-5.477	11.803	1.00	52.09	B
ATOM	6769	C	ALA	B	334	-45.410	-4.016	10.273	1.00	53.27	B
ATOM	6770	O	ALA	B	334	-45.786	-2.962	9.760	1.00	53.15	B
ATOM	6771	N	ALA	B	335	-44.194	-4.184	10.780	1.00	52.80	B
ATOM	6772	CA	ALA	B	335	-43.202	-3.117	10.773	1.00	53.17	B
ATOM	6773	CB	ALA	B	335	-41.923	-3.584	11.475	1.00	52.01	B
ATOM	6774	C	ALA	B	335	-42.895	-2.664	9.344	1.00	53.56	B
ATOM	6775	O	ALA	B	335	-42.797	-1.460	9.075	1.00	53.64	B
ATOM	6776	N	LEU	B	336	-42.743	-3.623	8.430	1.00	52.90	B
ATOM	6777	CA	LEU	B	336	-42.463	-3.288	7.039	1.00	52.43	B
ATOM	6778	CB	LEU	B	336	-42.255	-4.551	6.199	1.00	52.91	B
ATOM	6779	CG	LEU	B	336	-41.638	-4.279	4.825	1.00	53.09	B
ATOM	6780	CD1	LEU	B	336	-40.305	-3.585	5.011	1.00	53.97	B
ATOM	6781	CD2	LEU	B	336	-41.439	-5.565	4.067	1.00	53.44	B
ATOM	6782	C	LEU	B	336	-43.644	-2.486	6.498	1.00	52.04	B
ATOM	6783	O	LEU	B	336	-43.472	-1.551	5.711	1.00	53.03	B
ATOM	6784	N	ARG	B	337	-44.848	-2.852	6.918	1.00	50.63	B
ATOM	6785	CA	ARG	B	337	-46.021	-2.115	6.485	1.00	49.59	B
ATOM	6786	CB	ARG	B	337	-47.306	-2.803	6.958	1.00	51.48	B
ATOM	6787	CG	ARG	B	337	-47.801	-3.931	6.043	1.00	52.40	B
ATOM	6788	CD	ARG	B	337	-49.299	-4.232	6.282	1.00	53.65	B
ATOM	6789	NE	ARG	B	337	-49.541	-4.916	7.554	1.00	53.55	B
ATOM	6790	CZ	ARG	B	337	-49.108	-6.143	7.837	1.00	53.19	B
ATOM	6791	NH1	ARG	B	337	-48.412	-6.834	6.938	1.00	51.98	B
ATOM	6792	NH2	ARG	B	337	-49.363	-6.676	9.023	1.00	52.07	B
ATOM	6793	C	ARG	B	337	-45.931	-0.702	7.062	1.00	48.03	B
ATOM	6794	O	ARG	B	337	-46.303	0.270	6.406	1.00	49.32	B
ATOM	6795	N	ALA	B	338	-45.423	-0.594	8.287	1.00	45.72	B
ATOM	6796	CA	ALA	B	338	-45.264	0.701	8.947	1.00	43.57	B
ATOM	6797	CB	ALA	B	338	-44.802	0.503	10.391	1.00	42.56	B
ATOM	6798	C	ALA	B	338	-44.242	1.543	8.190	1.00	42.19	B
ATOM	6799	O	ALA	B	338	-44.453	2.726	7.935	1.00	41.35	B
ATOM	6800	N	PHE	B	339	-43.132	0.911	7.836	1.00	41.12	B
ATOM	6801	CA	PHE	B	339	-42.058	1.567	7.112	1.00	41.04	B
ATOM	6802	CB	PHE	B	339	-40.956	0.559	6.823	1.00	40.16	B
ATOM	6803	CG	PHE	B	339	-39.829	1.110	5.995	1.00	39.61	B
ATOM	6804	CD1	PHE	B	339	-38.757	1.754	6.601	1.00	38.10	B
ATOM	6805	CD2	PHE	B	339	-39.822	0.946	4.609	1.00	38.78	B
ATOM	6806	CE1	PHE	B	339	-37.688	2.219	5.846	1.00	38.43	B
ATOM	6807	CE2	PHE	B	339	-38.760	1.408	3.842	1.00	38.97	B
ATOM	6808	CZ	PHE	B	339	-37.685	2.047	4.465	1.00	39.28	B
ATOM	6809	C	PHE	B	339	-42.527	2.163	5.790	1.00	41.72	B
ATOM	6810	O	PHE	B	339	-42.067	3.236	5.375	1.00	41.28	B
ATOM	6811	N	THR	B	340	-43.439	1.459	5.128	1.00	40.80	B
ATOM	6812	CA	THR	B	340	-43.939	1.906	3.842	1.00	40.15	B
ATOM	6813	CB	THR	B	340	-44.625	0.759	3.115	1.00	40.36	B
ATOM	6814	OG1	THR	B	340	-43.784	-0.401	3.167	1.00	39.33	B
ATOM	6815	CG2	THR	B	340	-44.874	1.132	1.661	1.00	40.53	B
ATOM	6816	C	THR	B	340	-44.896	3.085	3.961	1.00	40.09	B
ATOM	6817	O	THR	B	340	-45.005	3.903	3.048	1.00	39.21	B
ATOM	6818	N	GLU	B	341	-45.588	3.172	5.089	1.00	40.47	B
ATOM	6819	CA	GLU	B	341	-46.523	4.264	5.319	1.00	41.67	B
ATOM	6820	CB	GLU	B	341	-47.391	3.979	6.536	1.00	45.20	B
ATOM	6821	CG	GLU	B	341	-48.322	2.805	6.398	1.00	50.58	B
ATOM	6822	CD	GLU	B	341	-48.872	2.380	7.752	1.00	55.00	B

ATOM	6823	OE1	GLU	B	341	-49.291	3.275	8.530	1.00	56.17	B
ATOM	6824	OE2	GLU	B	341	-48.886	1.158	8.038	1.00	56.57	B
ATOM	6825	C	GLU	B	341	-45.767	5.562	5.559	1.00	40.40	B
ATOM	6826	O	GLU	B	341	-46.177	6.629	5.091	1.00	40.72	B
ATOM	6827	N	ALA	B	342	-44.676	5.470	6.316	1.00	37.74	B
ATOM	6828	CA	ALA	B	342	-43.865	6.641	6.603	1.00	35.30	B
ATOM	6829	CB	ALA	B	342	-42.822	6.317	7.667	1.00	33.67	B
ATOM	6830	C	ALA	B	342	-43.200	7.095	5.302	1.00	33.64	B
ATOM	6831	O	ALA	B	342	-43.316	8.255	4.922	1.00	32.14	B
ATOM	6832	N	MET	B	343	-42.518	6.183	4.613	1.00	32.38	B
ATOM	6833	CA	MET	B	343	-41.878	6.543	3.353	1.00	32.61	B
ATOM	6834	CB	MET	B	343	-41.260	5.316	2.679	1.00	31.87	B
ATOM	6835	CG	MET	B	343	-40.000	4.793	3.340	1.00	31.84	B
ATOM	6836	SD	MET	B	343	-38.579	5.884	3.177	1.00	31.20	B
ATOM	6837	CE	MET	B	343	-37.699	5.075	1.868	1.00	31.35	B
ATOM	6838	C	MET	B	343	-42.914	7.174	2.422	1.00	32.27	B
ATOM	6839	O	MET	B	343	-42.621	8.134	1.701	1.00	33.27	B
ATOM	6840	N	THR	B	344	-44.128	6.641	2.442	1.00	31.31	B
ATOM	6841	CA	THR	B	344	-45.188	7.187	1.603	1.00	31.05	B
ATOM	6842	CB	THR	B	344	-46.446	6.297	1.621	1.00	29.28	B
ATOM	6843	OG1	THR	B	344	-46.140	5.030	1.022	1.00	26.09	B
ATOM	6844	CG2	THR	B	344	-47.579	6.960	0.851	1.00	25.39	B
ATOM	6845	C	THR	B	344	-45.556	8.584	2.083	1.00	31.53	B
ATOM	6846	O	THR	B	344	-45.839	9.474	1.282	1.00	31.05	B
ATOM	6847	N	ARG	B	345	-45.549	8.781	3.394	1.00	32.53	B
ATOM	6848	CA	ARG	B	345	-45.874	10.091	3.923	1.00	34.25	B
ATOM	6849	CB	ARG	B	345	-46.010	10.048	5.448	1.00	34.73	B
ATOM	6850	CG	ARG	B	345	-47.378	9.625	5.938	1.00	35.98	B
ATOM	6851	CD	ARG	B	345	-47.603	10.040	7.391	1.00	37.77	B
ATOM	6852	NE	ARG	B	345	-46.664	9.386	8.300	1.00	38.88	B
ATOM	6853	CZ	ARG	B	345	-46.674	8.085	8.567	1.00	38.87	B
ATOM	6854	NH1	ARG	B	345	-47.580	7.298	7.997	1.00	38.81	B
ATOM	6855	NH2	ARG	B	345	-45.773	7.570	9.394	1.00	40.15	B
ATOM	6856	C	ARG	B	345	-44.792	11.088	3.531	1.00	35.53	B
ATOM	6857	O	ARG	B	345	-45.076	12.276	3.341	1.00	35.69	B
ATOM	6858	N	TYR	B	346	-43.559	10.594	3.405	1.00	35.60	B
ATOM	6859	CA	TYR	B	346	-42.409	11.423	3.050	1.00	35.67	B
ATOM	6860	CB	TYR	B	346	-41.111	10.767	3.520	1.00	34.51	B
ATOM	6861	CG	TYR	B	346	-41.052	10.517	5.004	1.00	34.86	B
ATOM	6862	CD1	TYR	B	346	-41.867	11.233	5.883	1.00	33.80	B
ATOM	6863	CE1	TYR	B	346	-41.788	11.039	7.256	1.00	34.94	B
ATOM	6864	CD2	TYR	B	346	-40.150	9.594	5.541	1.00	34.09	B
ATOM	6865	CE2	TYR	B	346	-40.061	9.394	6.918	1.00	33.51	B
ATOM	6866	CZ	TYR	B	346	-40.883	10.122	7.768	1.00	34.49	B
ATOM	6867	OH	TYR	B	346	-40.802	9.952	9.133	1.00	35.99	B
ATOM	6868	C	TYR	B	346	-42.307	11.677	1.557	1.00	36.84	B
ATOM	6869	O	TYR	B	346	-41.334	12.267	1.089	1.00	37.54	B
ATOM	6870	N	SER	B	347	-43.304	11.220	0.814	1.00	36.47	B
ATOM	6871	CA	SER	B	347	-43.315	11.402	-0.622	1.00	37.32	B
ATOM	6872	CB	SER	B	347	-42.924	12.831	-0.976	1.00	36.05	B
ATOM	6873	OG	SER	B	347	-42.812	12.980	-2.377	1.00	36.31	B
ATOM	6874	C	SER	B	347	-42.377	10.424	-1.324	1.00	39.79	B
ATOM	6875	O	SER	B	347	-41.557	10.817	-2.160	1.00	41.55	B
ATOM	6876	N	ALA	B	348	-42.497	9.147	-0.974	1.00	39.67	B
ATOM	6877	CA	ALA	B	348	-41.685	8.107	-1.588	1.00	39.27	B
ATOM	6878	CB	ALA	B	348	-40.360	7.971	-0.855	1.00	37.95	B
ATOM	6879	C	ALA	B	348	-42.442	6.777	-1.578	1.00	39.91	B
ATOM	6880	O	ALA	B	348	-42.025	5.808	-0.940	1.00	39.91	B
ATOM	6881	N	PRO	B	349	-43.586	6.721	-2.273	1.00	39.96	B
ATOM	6882	CD	PRO	B	349	-44.265	7.800	-3.009	1.00	40.83	B
ATOM	6883	CA	PRO	B	349	-44.363	5.478	-2.312	1.00	39.80	B
ATOM	6884	CB	PRO	B	349	-45.633	5.880	-3.066	1.00	40.61	B
ATOM	6885	CG	PRO	B	349	-45.172	7.025	-3.937	1.00	41.78	B
ATOM	6886	C	PRO	B	349	-43.585	4.361	-3.001	1.00	39.12	B
ATOM	6887	O	PRO	B	349	-42.697	4.616	-3.819	1.00	38.47	B
ATOM	6888	N	PRO	B	350	-43.913	3.103	-2.672	1.00	39.18	B
ATOM	6889	CD	PRO	B	350	-44.833	2.720	-1.584	1.00	38.40	B
ATOM	6890	CA	PRO	B	350	-43.256	1.919	-3.236	1.00	37.87	B
ATOM	6891	CB	PRO	B	350	-43.507	0.866	-2.172	1.00	38.60	B
ATOM	6892	CG	PRO	B	350	-44.895	1.216	-1.714	1.00	37.83	B
ATOM	6893	C	PRO	B	350	-43.739	1.454	-4.598	1.00	36.81	B
ATOM	6894	O	PRO	B	350	-44.919	1.544	-4.915	1.00	34.96	B
ATOM	6895	N	GLY	B	351	-42.806	0.951	-5.397	1.00	37.96	B
ATOM	6896	CA	GLY	B	351	-43.160	0.429	-6.699	1.00	39.64	B
ATOM	6897	C	GLY	B	351	-43.848	-0.884	-6.398	1.00	41.24	B

ATOM	6898	O	GLY	B	351	-45.048	-1.038	-6.585	1.00	41.17	B
ATOM	6899	N	ASP	B	352	-43.080	-1.843	-5.911	1.00	43.92	B
ATOM	6900	CA	ASP	B	352	-43.653	-3.128	-5.546	1.00	47.86	B
ATOM	6901	CB	ASP	B	352	-42.831	-4.270	-6.130	1.00	49.51	B
ATOM	6902	CG	ASP	B	352	-42.462	-4.032	-7.567	1.00	52.21	B
ATOM	6903	OD1	ASP	B	352	-43.391	-3.816	-8.380	1.00	53.29	B
ATOM	6904	OD2	ASP	B	352	-41.247	-4.055	-7.875	1.00	53.51	B
ATOM	6905	C	ASP	B	352	-43.595	-3.200	-4.033	1.00	48.54	B
ATOM	6906	O	ASP	B	352	-42.616	-2.766	-3.426	1.00	49.49	B
ATOM	6907	N	PRO	B	353	-44.641	-3.730	-3.395	1.00	48.96	B
ATOM	6908	CD	PRO	B	353	-45.936	-4.235	-3.877	1.00	49.37	B
ATOM	6909	CA	PRO	B	353	-44.561	-3.794	-1.935	1.00	49.07	B
ATOM	6910	CB	PRO	B	353	-45.842	-4.535	-1.553	1.00	49.14	B
ATOM	6911	CG	PRO	B	353	-46.794	-4.130	-2.630	1.00	49.18	B
ATOM	6912	C	PRO	B	353	-43.293	-4.550	-1.510	1.00	48.50	B
ATOM	6913	O	PRO	B	353	-42.936	-5.580	-2.099	1.00	47.47	B
ATOM	6914	N	PRO	B	354	-42.585	-4.032	-0.499	1.00	47.36	B
ATOM	6915	CD	PRO	B	354	-42.876	-2.822	0.284	1.00	46.87	B
ATOM	6916	CA	PRO	B	354	-41.364	-4.677	-0.018	1.00	48.62	B
ATOM	6917	CB	PRO	B	354	-40.777	-3.637	0.916	1.00	47.77	B
ATOM	6918	CG	PRO	B	354	-42.000	-3.021	1.496	1.00	48.00	B
ATOM	6919	C	PRO	B	354	-41.698	-5.974	0.702	1.00	49.50	B
ATOM	6920	O	PRO	B	354	-42.726	-6.080	1.363	1.00	49.69	B
ATOM	6921	N	GLN	B	355	-40.826	-6.961	0.569	1.00	50.53	B
ATOM	6922	CA	GLN	B	355	-41.047	-8.248	1.199	1.00	50.84	B
ATOM	6923	CB	GLN	B	355	-41.200	-9.329	0.129	1.00	54.15	B
ATOM	6924	CG	GLN	B	355	-42.444	-9.168	-0.719	1.00	59.06	B
ATOM	6925	CD	GLN	B	355	-43.660	-8.794	0.123	1.00	61.95	B
ATOM	6926	OE1	GLN	B	355	-43.946	-9.428	1.146	1.00	62.53	B
ATOM	6927	NE2	GLN	B	355	-44.380	-7.759	-0.303	1.00	63.47	B
ATOM	6928	C	GLN	B	355	-39.910	-8.622	2.123	1.00	49.65	B
ATOM	6929	O	GLN	B	355	-38.762	-8.726	1.687	1.00	50.52	B
ATOM	6930	N	PRO	B	356	-40.206	-8.827	3.417	1.00	48.45	B
ATOM	6931	CD	PRO	B	356	-41.486	-8.699	4.132	1.00	47.66	B
ATOM	6932	CA	PRO	B	356	-39.129	-9.198	4.338	1.00	48.53	B
ATOM	6933	CB	PRO	B	356	-39.839	-9.286	5.694	1.00	48.09	B
ATOM	6934	CG	PRO	B	356	-41.256	-9.570	5.330	1.00	47.83	B
ATOM	6935	C	PRO	B	356	-38.453	-10.505	3.930	1.00	48.13	B
ATOM	6936	O	PRO	B	356	-39.081	-11.404	3.389	1.00	47.78	B
ATOM	6937	N	GLU	B	357	-37.157	-10.588	4.172	1.00	49.09	B
ATOM	6938	CA	GLU	B	357	-36.404	-11.779	3.830	1.00	50.66	B
ATOM	6939	CB	GLU	B	357	-35.473	-11.493	2.653	1.00	52.19	B
ATOM	6940	CG	GLU	B	357	-36.200	-11.185	1.360	1.00	54.31	B
ATOM	6941	CD	GLU	B	357	-37.192	-12.270	0.980	1.00	54.95	B
ATOM	6942	OE1	GLU	B	357	-36.856	-13.470	1.108	1.00	55.71	B
ATOM	6943	OE2	GLU	B	357	-38.306	-11.919	0.542	1.00	56.29	B
ATOM	6944	C	GLU	B	357	-35.594	-12.258	5.030	1.00	50.70	B
ATOM	6945	O	GLU	B	357	-35.220	-11.468	5.907	1.00	50.70	B
ATOM	6946	N	TYR	B	358	-35.326	-13.557	5.064	1.00	49.65	B
ATOM	6947	CA	TYR	B	358	-34.574	-14.138	6.159	1.00	49.66	B
ATOM	6948	CB	TYR	B	358	-35.503	-15.024	6.974	1.00	47.09	B
ATOM	6949	CG	TYR	B	358	-36.676	-14.248	7.533	1.00	44.64	B
ATOM	6950	CD1	TYR	B	358	-36.537	-13.455	8.672	1.00	43.62	B
ATOM	6951	CE1	TYR	B	358	-37.611	-12.712	9.173	1.00	42.52	B
ATOM	6952	CD2	TYR	B	358	-37.919	-14.280	6.906	1.00	44.38	B
ATOM	6953	CE2	TYR	B	358	-38.996	-13.540	7.398	1.00	43.27	B
ATOM	6954	CZ	TYR	B	358	-38.835	-12.762	8.528	1.00	42.53	B
ATOM	6955	OH	TYR	B	358	-39.897	-12.036	9.008	1.00	43.88	B
ATOM	6956	C	TYR	B	358	-33.391	-14.905	5.599	1.00	50.85	B
ATOM	6957	O	TYR	B	358	-32.605	-15.504	6.328	1.00	50.46	B
ATOM	6958	N	ASP	B	359	-33.281	-14.846	4.279	1.00	52.12	B
ATOM	6959	CA	ASP	B	359	-32.205	-15.467	3.523	1.00	53.94	B
ATOM	6960	CB	ASP	B	359	-32.791	-16.366	2.436	1.00	56.63	B
ATOM	6961	CG	ASP	B	359	-31.729	-17.056	1.599	1.00	58.73	B
ATOM	6962	OD1	ASP	B	359	-30.614	-16.500	1.447	1.00	60.55	B
ATOM	6963	OD2	ASP	B	359	-32.027	-18.155	1.078	1.00	59.74	B
ATOM	6964	C	ASP	B	359	-31.539	-14.258	2.878	1.00	54.43	B
ATOM	6965	O	ASP	B	359	-32.231	-13.371	2.390	1.00	54.30	B
ATOM	6966	N	LEU	B	360	-30.213	-14.208	2.868	1.00	55.08	B
ATOM	6967	CA	LEU	B	360	-29.527	-13.063	2.273	1.00	55.15	B
ATOM	6968	CB	LEU	B	360	-28.072	-13.008	2.741	1.00	55.17	B
ATOM	6969	CG	LEU	B	360	-27.313	-11.740	2.358	1.00	54.70	B
ATOM	6970	CD1	LEU	B	360	-27.937	-10.589	3.112	1.00	55.46	B
ATOM	6971	CD2	LEU	B	360	-25.835	-11.859	2.697	1.00	54.32	B
ATOM	6972	C	LEU	B	360	-29.564	-13.119	0.751	1.00	55.50	B

ATOM	6973	O	LEU	B	360	-29.749	-12.102	0.078	1.00	55.66	B
ATOM	6974	N	GLU	B	361	-29.383	-14.318	0.215	1.00	55.85	B
ATOM	6975	CA	GLU	B	361	-29.387	-14.521	-1.225	1.00	55.77	B
ATOM	6976	CB	GLU	B	361	-29.161	-16.000	-1.547	1.00	56.94	B
ATOM	6977	CG	GLU	B	361	-27.916	-16.608	-0.932	1.00	59.09	B
ATOM	6978	CD	GLU	B	361	-27.558	-17.949	-1.563	1.00	59.95	B
ATOM	6979	OE1	GLU	B	361	-27.407	-18.001	-2.807	1.00	59.04	B
ATOM	6980	OE2	GLU	B	361	-27.422	-18.945	-0.819	1.00	60.29	B
ATOM	6981	C	GLU	B	361	-30.704	-14.073	-1.858	1.00	55.09	B
ATOM	6982	O	GLU	B	361	-30.742	-13.691	-3.029	1.00	53.73	B
ATOM	6983	N	LEU	B	362	-31.776	-14.117	-1.070	1.00	54.70	B
ATOM	6984	CA	LEU	B	362	-33.112	-13.760	-1.545	1.00	55.02	B
ATOM	6985	CB	LEU	B	362	-34.167	-14.568	-0.790	1.00	55.14	B
ATOM	6986	CG	LEU	B	362	-34.351	-15.992	-1.306	1.00	54.72	B
ATOM	6987	CD1	LEU	B	362	-35.306	-16.756	-0.409	1.00	55.40	B
ATOM	6988	CD2	LEU	B	362	-34.872	-15.933	-2.729	1.00	53.93	B
ATOM	6989	C	LEU	B	362	-33.482	-12.290	-1.489	1.00	55.20	B
ATOM	6990	O	LEU	B	362	-34.647	-11.940	-1.297	1.00	55.62	B
ATOM	6991	N	ILE	B	363	-32.488	-11.433	-1.656	1.00	54.87	B
ATOM	6992	CA	ILE	B	363	-32.708	-9.999	-1.654	1.00	53.74	B
ATOM	6993	CB	ILE	B	363	-32.114	-9.344	-0.383	1.00	52.76	B
ATOM	6994	CG2	ILE	B	363	-32.283	-7.832	-0.442	1.00	52.15	B
ATOM	6995	CG1	ILE	B	363	-32.797	-9.912	0.864	1.00	52.10	B
ATOM	6996	CD1	ILE	B	363	-32.227	-9.392	2.174	1.00	50.97	B
ATOM	6997	C	ILE	B	363	-32.002	-9.454	-2.888	1.00	54.14	B
ATOM	6998	O	ILE	B	363	-30.848	-9.797	-3.146	1.00	54.06	B
ATOM	6999	N	THR	B	364	-32.698	-8.636	-3.670	1.00	54.86	B
ATOM	7000	CA	THR	B	364	-32.077	-8.055	-4.851	1.00	56.10	B
ATOM	7001	CB	THR	B	364	-32.860	-8.388	-6.134	1.00	56.48	B
ATOM	7002	OG1	THR	B	364	-33.027	-9.808	-6.231	1.00	57.50	B
ATOM	7003	CG2	THR	B	364	-32.094	-7.898	-7.369	1.00	55.82	B
ATOM	7004	C	THR	B	364	-31.928	-6.538	-4.727	1.00	56.40	B
ATOM	7005	O	THR	B	364	-32.905	-5.786	-4.774	1.00	56.52	B
ATOM	7006	N	SER	B	365	-30.683	-6.107	-4.551	1.00	56.19	B
ATOM	7007	CA	SER	B	365	-30.354	-4.699	-4.429	1.00	57.01	B
ATOM	7008	CB	SER	B	365	-29.639	-4.435	-3.106	1.00	57.43	B
ATOM	7009	OG	SER	B	365	-29.285	-3.067	-2.992	1.00	59.50	B
ATOM	7010	C	SER	B	365	-29.454	-4.295	-5.595	1.00	57.18	B
ATOM	7011	O	SER	B	365	-28.552	-5.040	-5.988	1.00	56.99	B
ATOM	7012	N	CYS	B	366	-29.703	-3.110	-6.142	1.00	57.22	B
ATOM	7013	CA	CYS	B	366	-28.925	-2.606	-7.266	1.00	56.84	B
ATOM	7014	CB	CYS	B	366	-27.509	-2.250	-6.817	1.00	56.38	B
ATOM	7015	SG	CYS	B	366	-27.460	-0.782	-5.791	1.00	57.69	B
ATOM	7016	C	CYS	B	366	-28.864	-3.629	-8.382	1.00	56.34	B
ATOM	7017	O	CYS	B	366	-27.810	-3.849	-8.985	1.00	55.72	B
ATOM	7018	N	SER	B	367	-29.997	-4.264	-8.651	1.00	55.39	B
ATOM	7019	CA	SER	B	367	-30.042	-5.254	-9.706	1.00	56.17	B
ATOM	7020	CB	SER	B	367	-29.616	-4.606	-11.029	1.00	55.61	B
ATOM	7021	OG	SER	B	367	-30.369	-3.438	-11.301	1.00	54.28	B
ATOM	7022	C	SER	B	367	-29.089	-6.403	-9.368	1.00	56.49	B
ATOM	7023	O	SER	B	367	-28.519	-7.029	-10.262	1.00	56.52	B
ATOM	7024	N	SER	B	368	-28.905	-6.667	-8.078	1.00	55.80	B
ATOM	7025	CA	SER	B	368	-28.006	-7.735	-7.655	1.00	55.45	B
ATOM	7026	CB	SER	B	368	-26.603	-7.185	-7.397	1.00	54.39	B
ATOM	7027	OG	SER	B	368	-25.955	-6.849	-8.606	1.00	54.11	B
ATOM	7028	C	SER	B	368	-28.468	-8.471	-6.411	1.00	56.02	B
ATOM	7029	O	SER	B	368	-29.051	-7.886	-5.503	1.00	56.24	B
ATOM	7030	N	ASN	B	369	-28.204	-9.770	-6.388	1.00	56.73	B
ATOM	7031	CA	ASN	B	369	-28.543	-10.611	-5.249	1.00	56.39	B
ATOM	7032	CB	ASN	B	369	-29.494	-11.750	-5.650	1.00	56.26	B
ATOM	7033	CG	ASN	B	369	-28.851	-12.749	-6.610	1.00	56.64	B
ATOM	7034	OD1	ASN	B	369	-28.733	-12.495	-7.809	1.00	56.13	B
ATOM	7035	ND2	ASN	B	369	-28.424	-13.890	-6.076	1.00	57.25	B
ATOM	7036	C	ASN	B	369	-27.211	-11.196	-4.824	1.00	56.15	B
ATOM	7037	O	ASN	B	369	-26.232	-11.120	-5.571	1.00	55.96	B
ATOM	7038	N	VAL	B	370	-27.165	-11.760	-3.626	1.00	56.12	B
ATOM	7039	CA	VAL	B	370	-25.938	-12.375	-3.143	1.00	55.70	B
ATOM	7040	CB	VAL	B	370	-25.748	-12.162	-1.620	1.00	55.79	B
ATOM	7041	CG1	VAL	B	370	-24.516	-12.911	-1.137	1.00	55.60	B
ATOM	7042	CG2	VAL	B	370	-25.603	-10.683	-1.317	1.00	54.73	B
ATOM	7043	C	VAL	B	370	-26.058	-13.864	-3.435	1.00	55.36	B
ATOM	7044	O	VAL	B	370	-27.155	-14.425	-3.397	1.00	54.64	B
ATOM	7045	N	SER	B	371	-24.932	-14.496	-3.746	1.00	55.43	B
ATOM	7046	CA	SER	B	371	-24.918	-15.923	-4.040	1.00	55.11	B
ATOM	7047	CB	SER	B	371	-25.096	-16.153	-5.551	1.00	55.65	B

ATOM	7048	OG	SER	B	371	-25.345	-17.520	-5.847	1.00	55.49	B
ATOM	7049	C	SER	B	371	-23.594	-16.518	-3.559	1.00	54.32	B
ATOM	7050	O	SER	B	371	-22.639	-15.793	-3.285	1.00	53.16	B
ATOM	7051	N	VAL	B	372	-23.535	-17.840	-3.466	1.00	54.30	B
ATOM	7052	CA	VAL	B	372	-22.318	-18.495	-3.005	1.00	54.17	B
ATOM	7053	CB	VAL	B	372	-22.629	-19.418	-1.814	1.00	51.56	B
ATOM	7054	CG1	VAL	B	372	-21.345	-19.803	-1.104	1.00	49.18	B
ATOM	7055	CG2	VAL	B	372	-23.606	-18.724	-0.869	1.00	49.14	B
ATOM	7056	C	VAL	B	372	-21.623	-19.302	-4.105	1.00	55.82	B
ATOM	7057	O	VAL	B	372	-22.167	-19.491	-5.199	1.00	55.88	B
ATOM	7058	N	ALA	B	373	-20.410	-19.755	-3.803	1.00	57.11	B
ATOM	7059	CA	ALA	B	373	-19.601	-20.554	-4.719	1.00	58.88	B
ATOM	7060	CB	ALA	B	373	-19.086	-19.693	-5.878	1.00	58.56	B
ATOM	7061	C	ALA	B	373	-18.428	-21.139	-3.931	1.00	60.35	B
ATOM	7062	O	ALA	B	373	-18.381	-21.027	-2.702	1.00	60.01	B
ATOM	7063	N	HIS	B	374	-17.482	-21.756	-4.634	1.00	61.79	B
ATOM	7064	CA	HIS	B	374	-16.328	-22.353	-3.974	1.00	62.54	B
ATOM	7065	CB	HIS	B	374	-16.553	-23.851	-3.778	1.00	60.90	B
ATOM	7066	CG	HIS	B	374	-17.500	-24.171	-2.665	1.00	59.94	B
ATOM	7067	CD2	HIS	B	374	-18.792	-24.577	-2.678	1.00	59.79	B
ATOM	7068	ND1	HIS	B	374	-17.150	-24.052	-1.337	1.00	59.81	B
ATOM	7069	CE1	HIS	B	374	-18.185	-24.371	-0.579	1.00	59.49	B
ATOM	7070	NE2	HIS	B	374	-19.195	-24.693	-1.368	1.00	59.42	B
ATOM	7071	C	HIS	B	374	-15.047	-22.127	-4.741	1.00	64.61	B
ATOM	7072	O	HIS	B	374	-15.025	-22.194	-5.969	1.00	65.37	B
ATOM	7073	N	ASP	B	375	-13.979	-21.852	-4.002	1.00	66.74	B
ATOM	7074	CA	ASP	B	375	-12.669	-21.617	-4.594	1.00	69.27	B
ATOM	7075	CB	ASP	B	375	-11.893	-20.585	-3.778	1.00	71.15	B
ATOM	7076	CG	ASP	B	375	-11.479	-21.115	-2.407	1.00	72.56	B
ATOM	7077	OD1	ASP	B	375	-12.343	-21.657	-1.673	1.00	71.33	B
ATOM	7078	OD2	ASP	B	375	-10.281	-20.980	-2.069	1.00	73.97	B
ATOM	7079	C	ASP	B	375	-11.907	-22.930	-4.583	1.00	70.41	B
ATOM	7080	O	ASP	B	375	-12.416	-23.947	-4.097	1.00	70.19	B
ATOM	7081	N	ALA	B	376	-10.686	-22.902	-5.109	1.00	71.29	B
ATOM	7082	CA	ALA	B	376	-9.853	-24.098	-5.159	1.00	72.41	B
ATOM	7083	CB	ALA	B	376	-8.400	-23.717	-5.448	1.00	72.80	B
ATOM	7084	C	ALA	B	376	-9.963	-24.810	-3.817	1.00	73.03	B
ATOM	7085	O	ALA	B	376	-10.486	-25.926	-3.731	1.00	72.87	B
ATOM	7086	N	SER	B	377	-9.484	-24.136	-2.774	1.00	73.74	B
ATOM	7087	CA	SER	B	377	-9.516	-24.649	-1.405	1.00	73.94	B
ATOM	7088	CB	SER	B	377	-9.418	-23.485	-0.409	1.00	74.45	B
ATOM	7089	OG	SER	B	377	-8.473	-22.514	-0.838	1.00	74.76	B
ATOM	7090	C	SER	B	377	-10.823	-25.399	-1.157	1.00	73.96	B
ATOM	7091	O	SER	B	377	-10.834	-26.510	-0.614	1.00	74.50	B
ATOM	7092	N	GLY	B	378	-11.924	-24.777	-1.568	1.00	73.06	B
ATOM	7093	CA	GLY	B	378	-13.228	-25.381	-1.385	1.00	72.07	B
ATOM	7094	C	GLY	B	378	-14.020	-24.624	-0.341	1.00	71.07	B
ATOM	7095	O	GLY	B	378	-15.039	-25.107	0.153	1.00	70.67	B
ATOM	7096	N	LYS	B	379	-13.548	-23.429	0.001	1.00	70.50	B
ATOM	7097	CA	LYS	B	379	-14.226	-22.599	0.990	1.00	68.86	B
ATOM	7098	CB	LYS	B	379	-13.218	-21.678	1.690	1.00	69.09	B
ATOM	7099	CG	LYS	B	379	-13.831	-20.739	2.718	1.00	69.21	B
ATOM	7100	CD	LYS	B	379	-14.373	-21.486	3.928	1.00	69.90	B
ATOM	7101	CE	LYS	B	379	-14.907	-20.504	4.969	1.00	71.11	B
ATOM	7102	NZ	LYS	B	379	-15.387	-21.155	6.227	1.00	71.82	B
ATOM	7103	C	LYS	B	379	-15.316	-21.767	0.310	1.00	67.43	B
ATOM	7104	O	LYS	B	379	-15.180	-21.366	-0.852	1.00	65.77	B
ATOM	7105	N	ARG	B	380	-16.399	-21.526	1.043	1.00	66.88	B
ATOM	7106	CA	ARG	B	380	-17.526	-20.743	0.544	1.00	65.90	B
ATOM	7107	CB	ARG	B	380	-18.625	-20.664	1.610	1.00	67.93	B
ATOM	7108	CG	ARG	B	380	-19.059	-22.014	2.144	1.00	71.41	B
ATOM	7109	CD	ARG	B	380	-19.720	-21.892	3.505	1.00	75.22	B
ATOM	7110	NE	ARG	B	380	-21.129	-21.516	3.424	1.00	78.35	B
ATOM	7111	CZ	ARG	B	380	-21.934	-21.393	4.479	1.00	79.46	B
ATOM	7112	NH1	ARG	B	380	-21.469	-21.612	5.707	1.00	78.96	B
ATOM	7113	NH2	ARG	B	380	-23.211	-21.068	4.306	1.00	79.52	B
ATOM	7114	C	ARG	B	380	-17.044	-19.337	0.215	1.00	64.30	B
ATOM	7115	O	ARG	B	380	-16.448	-18.666	1.058	1.00	64.44	B
ATOM	7116	N	VAL	B	381	-17.293	-18.895	-1.011	1.00	62.12	B
ATOM	7117	CA	VAL	B	381	-16.889	-17.559	-1.432	1.00	58.77	B
ATOM	7118	CB	VAL	B	381	-15.830	-17.608	-2.552	1.00	58.49	B
ATOM	7119	CG1	VAL	B	381	-15.508	-16.196	-3.048	1.00	55.90	B
ATOM	7120	CG2	VAL	B	381	-14.577	-18.298	-2.034	1.00	58.07	B
ATOM	7121	C	VAL	B	381	-18.106	-16.813	-1.936	1.00	57.06	B
ATOM	7122	O	VAL	B	381	-18.680	-17.161	-2.967	1.00	56.79	B

ATOM	7123	N	TYR	B	382	-18.510	-15.797	-1.189	1.00	55.52	B
ATOM	7124	CA	TYR	B	382	-19.659	-15.001	-1.572	1.00	53.75	B
ATOM	7125	CB	TYR	B	382	-20.176	-14.232	-0.371	1.00	51.09	B
ATOM	7126	CG	TYR	B	382	-20.702	-15.133	0.711	1.00	49.77	B
ATOM	7127	CD1	TYR	B	382	-22.032	-15.533	0.720	1.00	48.76	B
ATOM	7128	CE1	TYR	B	382	-22.524	-16.362	1.721	1.00	49.40	B
ATOM	7129	CD2	TYR	B	382	-19.869	-15.589	1.728	1.00	49.68	B
ATOM	7130	CE2	TYR	B	382	-20.350	-16.420	2.730	1.00	49.84	B
ATOM	7131	CZ	TYR	B	382	-21.678	-16.803	2.726	1.00	49.63	B
ATOM	7132	OH	TYR	B	382	-22.156	-17.617	3.731	1.00	50.39	B
ATOM	7133	C	TYR	B	382	-19.247	-14.047	-2.677	1.00	53.82	B
ATOM	7134	O	TYR	B	382	-18.097	-13.605	-2.733	1.00	53.69	B
ATOM	7135	N	TYR	B	383	-20.188	-13.756	-3.566	1.00	53.80	B
ATOM	7136	CA	TYR	B	383	-19.944	-12.862	-4.682	1.00	53.65	B
ATOM	7137	CB	TYR	B	383	-19.327	-13.622	-5.862	1.00	54.98	B
ATOM	7138	CG	TYR	B	383	-20.205	-14.712	-6.459	1.00	56.20	B
ATOM	7139	CD1	TYR	B	383	-20.666	-15.774	-5.675	1.00	56.67	B
ATOM	7140	CE1	TYR	B	383	-21.466	-16.784	-6.218	1.00	55.99	B
ATOM	7141	CD2	TYR	B	383	-20.566	-14.686	-7.811	1.00	56.16	B
ATOM	7142	CE2	TYR	B	383	-21.366	-15.694	-8.365	1.00	56.64	B
ATOM	7143	CZ	TYR	B	383	-21.811	-16.737	-7.559	1.00	55.69	B
ATOM	7144	OH	TYR	B	383	-22.607	-17.722	-8.093	1.00	54.62	B
ATOM	7145	C	TYR	B	383	-21.265	-12.243	-5.097	1.00	53.44	B
ATOM	7146	O	TYR	B	383	-22.337	-12.757	-4.756	1.00	53.58	B
ATOM	7147	N	LEU	B	384	-21.184	-11.137	-5.827	1.00	51.37	B
ATOM	7148	CA	LEU	B	384	-22.375	-10.446	-6.275	1.00	49.25	B
ATOM	7149	CB	LEU	B	384	-22.175	-8.940	-6.159	1.00	50.20	B
ATOM	7150	CG	LEU	B	384	-23.483	-8.194	-5.928	1.00	51.86	B
ATOM	7151	CD1	LEU	B	384	-23.833	-8.301	-4.449	1.00	52.23	B
ATOM	7152	CD2	LEU	B	384	-23.346	-6.738	-6.342	1.00	52.86	B
ATOM	7153	C	LEU	B	384	-22.704	-10.810	-7.718	1.00	47.89	B
ATOM	7154	O	LEU	B	384	-21.831	-10.785	-8.589	1.00	46.57	B
ATOM	7155	N	THR	B	385	-23.972	-11.133	-7.967	1.00	46.20	B
ATOM	7156	CA	THR	B	385	-24.427	-11.511	-9.304	1.00	44.71	B
ATOM	7157	CB	THR	B	385	-24.391	-13.056	-9.479	1.00	43.67	B
ATOM	7158	OG1	THR	B	385	-24.939	-13.415	-10.753	1.00	42.91	B
ATOM	7159	CG2	THR	B	385	-25.194	-13.729	-8.382	1.00	42.52	B
ATOM	7160	C	THR	B	385	-25.847	-11.004	-9.590	1.00	43.55	B
ATOM	7161	O	THR	B	385	-26.417	-10.258	-8.793	1.00	42.03	B
ATOM	7162	N	ARG	B	386	-26.404	-11.419	-10.729	1.00	43.20	B
ATOM	7163	CA	ARG	B	386	-27.751	-11.020	-11.134	1.00	43.34	B
ATOM	7164	CB	ARG	B	386	-27.784	-9.523	-11.445	1.00	43.77	B
ATOM	7165	CG	ARG	B	386	-26.805	-9.080	-12.535	1.00	44.27	B
ATOM	7166	CD	ARG	B	386	-27.170	-7.707	-13.080	1.00	44.60	B
ATOM	7167	NE	ARG	B	386	-28.417	-7.739	-13.845	1.00	45.20	B
ATOM	7168	CZ	ARG	B	386	-29.059	-6.660	-14.289	1.00	44.92	B
ATOM	7169	NH1	ARG	B	386	-28.587	-5.446	-14.049	1.00	43.80	B
ATOM	7170	NH2	ARG	B	386	-30.176	-6.796	-14.989	1.00	45.23	B
ATOM	7171	C	ARG	B	386	-28.239	-11.773	-12.368	1.00	43.36	B
ATOM	7172	O	ARG	B	386	-27.466	-12.467	-13.024	1.00	43.38	B
ATOM	7173	N	ASP	B	387	-29.529	-11.630	-12.674	1.00	42.64	B
ATOM	7174	CA	ASP	B	387	-30.118	-12.249	-13.855	1.00	42.39	B
ATOM	7175	CB	ASP	B	387	-31.614	-11.943	-13.928	1.00	44.89	B
ATOM	7176	CG	ASP	B	387	-32.318	-12.711	-15.045	1.00	48.22	B
ATOM	7177	OD1	ASP	B	387	-31.804	-12.703	-16.187	1.00	49.38	B
ATOM	7178	OD2	ASP	B	387	-33.387	-13.318	-14.780	1.00	47.88	B
ATOM	7179	C	ASP	B	387	-29.403	-11.592	-15.034	1.00	42.07	B
ATOM	7180	O	ASP	B	387	-29.631	-10.425	-15.339	1.00	41.36	B
ATOM	7181	N	PRO	B	388	-28.545	-12.348	-15.724	1.00	41.73	B
ATOM	7182	CD	PRO	B	388	-28.438	-13.806	-15.546	1.00	42.32	B
ATOM	7183	CA	PRO	B	388	-27.746	-11.915	-16.874	1.00	42.19	B
ATOM	7184	CB	PRO	B	388	-26.852	-13.118	-17.125	1.00	41.82	B
ATOM	7185	CG	PRO	B	388	-27.776	-14.243	-16.836	1.00	41.95	B
ATOM	7186	C	PRO	B	388	-28.462	-11.478	-18.148	1.00	43.54	B
ATOM	7187	O	PRO	B	388	-27.802	-11.076	-19.112	1.00	44.59	B
ATOM	7188	N	THR	B	389	-29.791	-11.544	-18.166	1.00	43.35	B
ATOM	7189	CA	THR	B	389	-30.531	-11.172	-19.368	1.00	43.07	B
ATOM	7190	CB	THR	B	389	-32.054	-11.219	-19.140	1.00	43.08	B
ATOM	7191	OG1	THR	B	389	-32.415	-12.506	-18.626	1.00	44.14	B
ATOM	7192	CG2	THR	B	389	-32.801	-10.990	-20.455	1.00	40.77	B
ATOM	7193	C	THR	B	389	-30.161	-9.796	-19.906	1.00	43.81	B
ATOM	7194	O	THR	B	389	-29.480	-9.687	-20.932	1.00	43.75	B
ATOM	7195	N	THR	B	390	-30.605	-8.748	-19.218	1.00	43.71	B
ATOM	7196	CA	THR	B	390	-30.321	-7.391	-19.659	1.00	43.31	B
ATOM	7197	CB	THR	B	390	-30.735	-6.360	-18.596	1.00	42.97	B

ATOM	7198	OG1	THR	B	390	-32.103	-6.579	-18.220	1.00	41.31	B
ATOM	7199	CG2	THR	B	390	-30.581	-4.951	-19.148	1.00	39.81	B
ATOM	7200	C	THR	B	390	-28.833	-7.243	-19.965	1.00	44.33	B
ATOM	7201	O	THR	B	390	-28.451	-6.724	-21.012	1.00	44.12	B
ATOM	7202	N	PRO	B	391	-27.969	-7.701	-19.050	1.00	44.79	B
ATOM	7203	CD	PRO	B	391	-28.215	-8.218	-17.692	1.00	44.15	B
ATOM	7204	CA	PRO	B	391	-26.535	-7.583	-19.313	1.00	45.70	B
ATOM	7205	CB	PRO	B	391	-25.920	-8.385	-18.175	1.00	44.67	B
ATOM	7206	CG	PRO	B	391	-26.852	-8.080	-17.045	1.00	44.54	B
ATOM	7207	C	PRO	B	391	-26.169	-8.135	-20.696	1.00	47.47	B
ATOM	7208	O	PRO	B	391	-25.628	-7.411	-21.530	1.00	48.24	B
ATOM	7209	N	LEU	B	392	-26.490	-9.404	-20.943	1.00	48.88	B
ATOM	7210	CA	LEU	B	392	-26.185	-10.050	-22.222	1.00	50.06	B
ATOM	7211	CB	LEU	B	392	-26.590	-11.529	-22.187	1.00	50.29	B
ATOM	7212	CG	LEU	B	392	-25.956	-12.407	-21.107	1.00	50.05	B
ATOM	7213	CD1	LEU	B	392	-26.222	-13.862	-21.420	1.00	48.80	B
ATOM	7214	CD2	LEU	B	392	-24.453	-12.147	-21.051	1.00	51.21	B
ATOM	7215	C	LEU	B	392	-26.846	-9.391	-23.430	1.00	51.23	B
ATOM	7216	O	LEU	B	392	-26.196	-9.164	-24.454	1.00	50.97	B
ATOM	7217	N	ALA	B	393	-28.142	-9.106	-23.311	1.00	52.75	B
ATOM	7218	CA	ALA	B	393	-28.900	-8.474	-24.389	1.00	53.52	B
ATOM	7219	CB	ALA	B	393	-30.318	-8.165	-23.923	1.00	52.90	B
ATOM	7220	C	ALA	B	393	-28.213	-7.196	-24.861	1.00	53.80	B
ATOM	7221	O	ALA	B	393	-28.138	-6.931	-26.060	1.00	53.81	B
ATOM	7222	N	ARG	B	394	-27.715	-6.401	-23.920	1.00	54.52	B
ATOM	7223	CA	ARG	B	394	-27.029	-5.171	-24.295	1.00	56.11	B
ATOM	7224	CB	ARG	B	394	-26.818	-4.267	-23.072	1.00	54.59	B
ATOM	7225	CG	ARG	B	394	-28.092	-3.560	-22.639	1.00	53.18	B
ATOM	7226	CD	ARG	B	394	-27.949	-2.761	-21.348	1.00	52.91	B
ATOM	7227	NE	ARG	B	394	-29.245	-2.199	-20.966	1.00	53.19	B
ATOM	7228	CZ	ARG	B	394	-29.488	-1.521	-19.848	1.00	53.10	B
ATOM	7229	NH1	ARG	B	394	-28.522	-1.301	-18.967	1.00	53.23	B
ATOM	7230	NH2	ARG	B	394	-30.712	-1.071	-19.605	1.00	52.78	B
ATOM	7231	C	ARG	B	394	-25.699	-5.534	-24.942	1.00	57.71	B
ATOM	7232	O	ARG	B	394	-25.352	-5.023	-26.013	1.00	58.08	B
ATOM	7233	N	ALA	B	395	-24.971	-6.438	-24.293	1.00	59.20	B
ATOM	7234	CA	ALA	B	395	-23.685	-6.897	-24.799	1.00	60.51	B
ATOM	7235	CB	ALA	B	395	-23.229	-8.128	-24.024	1.00	60.81	B
ATOM	7236	C	ALA	B	395	-23.824	-7.230	-26.278	1.00	61.55	B
ATOM	7237	O	ALA	B	395	-22.976	-6.857	-27.087	1.00	61.71	B
ATOM	7238	N	ALA	B	396	-24.909	-7.927	-26.615	1.00	62.92	B
ATOM	7239	CA	ALA	B	396	-25.190	-8.332	-27.991	1.00	64.22	B
ATOM	7240	CB	ALA	B	396	-26.434	-9.212	-28.039	1.00	63.65	B
ATOM	7241	C	ALA	B	396	-25.391	-7.116	-28.874	1.00	65.65	B
ATOM	7242	O	ALA	B	396	-24.744	-6.970	-29.912	1.00	66.69	B
ATOM	7243	N	TRP	B	397	-26.289	-6.242	-28.435	1.00	67.00	B
ATOM	7244	CA	TRP	B	397	-26.624	-5.022	-29.151	1.00	68.53	B
ATOM	7245	CB	TRP	B	397	-27.587	-4.197	-28.296	1.00	68.71	B
ATOM	7246	CG	TRP	B	397	-28.174	-3.012	-28.997	1.00	69.95	B
ATOM	7247	CD2	TRP	B	397	-29.451	-2.952	-29.650	1.00	70.00	B
ATOM	7248	CE2	TRP	B	397	-29.593	-1.646	-30.170	1.00	69.38	B
ATOM	7249	CE3	TRP	B	397	-30.488	-3.878	-29.846	1.00	69.70	B
ATOM	7250	CD1	TRP	B	397	-27.608	-1.774	-29.145	1.00	69.15	B
ATOM	7251	NE1	TRP	B	397	-28.457	-0.949	-29.849	1.00	69.60	B
ATOM	7252	CZ2	TRP	B	397	-30.731	-1.240	-30.872	1.00	69.28	B
ATOM	7253	CZ3	TRP	B	397	-31.620	-3.474	-30.544	1.00	70.13	B
ATOM	7254	CH2	TRP	B	397	-31.732	-2.163	-31.049	1.00	69.88	B
ATOM	7255	C	TRP	B	397	-25.413	-4.164	-29.542	1.00	69.95	B
ATOM	7256	O	TRP	B	397	-25.440	-3.465	-30.557	1.00	70.03	B
ATOM	7257	N	GLU	B	398	-24.351	-4.221	-28.745	1.00	71.41	B
ATOM	7258	CA	GLU	B	398	-23.156	-3.427	-29.009	1.00	72.92	B
ATOM	7259	CB	GLU	B	398	-22.412	-3.203	-27.706	1.00	71.82	B
ATOM	7260	CG	GLU	B	398	-23.334	-2.672	-26.646	1.00	72.08	B
ATOM	7261	CD	GLU	B	398	-22.763	-2.804	-25.269	1.00	72.38	B
ATOM	7262	OE1	GLU	B	398	-22.124	-3.845	-24.997	1.00	72.90	B
ATOM	7263	OE2	GLU	B	398	-22.970	-1.877	-24.457	1.00	72.87	B
ATOM	7264	C	GLU	B	398	-22.233	-4.051	-30.043	1.00	74.71	B
ATOM	7265	O	GLU	B	398	-21.393	-3.369	-30.636	1.00	74.48	B
ATOM	7266	N	THR	B	399	-22.394	-5.352	-30.258	1.00	77.06	B
ATOM	7267	CA	THR	B	399	-21.583	-6.060	-31.237	1.00	79.31	B
ATOM	7268	CB	THR	B	399	-21.607	-7.591	-30.998	1.00	79.04	B
ATOM	7269	OG1	THR	B	399	-20.960	-7.886	-29.755	1.00	79.59	B
ATOM	7270	CG2	THR	B	399	-20.887	-8.327	-32.130	1.00	78.69	B
ATOM	7271	C	THR	B	399	-22.118	-5.766	-32.631	1.00	81.00	B
ATOM	7272	O	THR	B	399	-21.365	-5.387	-33.533	1.00	81.00	B

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ATOM   7273  N   ALA B 400     -23.430  -5.921 -32.784  1.00 82.55      B
ATOM   7274  CA  ALA B 400     -24.102  -5.701 -34.061  1.00 84.33      B
ATOM   7275  CB  ALA B 400     -25.494  -6.337 -34.024  1.00 83.77      B
ATOM   7276  C   ALA B 400     -24.208  -4.242 -34.546  1.00 85.80      B
ATOM   7277  O   ALA B 400     -24.488  -4.007 -35.721  1.00 85.49      B
ATOM   7278  N   ARG B 401     -23.990  -3.266 -33.663  1.00 87.49      B
ATOM   7279  CA  ARG B 401     -24.080  -1.860 -34.073  1.00 89.65      B
ATOM   7280  CB  ARG B 401     -25.279  -1.178 -33.412  1.00 89.41      B
ATOM   7281  CG  ARG B 401     -25.680   0.128 -34.093  1.00 89.92      B
ATOM   7282  CD  ARG B 401     -26.721  -0.068 -35.200  1.00 90.25      B
ATOM   7283  NE  ARG B 401     -26.321  -1.016 -36.243  1.00 90.69      B
ATOM   7284  CZ  ARG B 401     -27.099  -1.378 -37.264  1.00 90.66      B
ATOM   7285  NH1 ARG B 401     -28.323  -0.872 -37.388  1.00 91.04      B
ATOM   7286  NH2 ARG B 401     -26.659  -2.251 -38.162  1.00 90.28      B
ATOM   7287  C   ARG B 401     -22.800  -1.051 -33.809  1.00 91.44      B
ATOM   7288  O   ARG B 401     -21.700  -1.621 -33.851  1.00 91.69      B
ATOM   7289  N   HIS B 402     -22.910   0.254 -33.512  1.00 93.22      B
ATOM   7290  CA  HIS B 402     -21.676   1.031 -33.317  1.00 94.63      B
ATOM   7291  CB  HIS B 402     -21.763   2.461 -33.925  1.00 95.62      B
ATOM   7292  CG  HIS B 402     -22.949   3.276 -33.509  1.00 96.97      B
ATOM   7293  CD2 HIS B 402     -23.049   4.332 -32.665  1.00 97.09      B
ATOM   7294  ND1 HIS B 402     -24.192   3.134 -34.091  1.00 97.25      B
ATOM   7295  CE1 HIS B 402     -25.003   4.070 -33.631  1.00 96.83      B
ATOM   7296  NE2 HIS B 402     -24.334   4.811 -32.765  1.00 97.03      B
ATOM   7297  C   HIS B 402     -20.841   1.079 -32.026  1.00 95.15      B
ATOM   7298  O   HIS B 402     -20.796   0.090 -31.291  1.00 94.77      B
ATOM   7299  N   THR B 403     -20.218   2.222 -31.718  1.00 95.80      B
ATOM   7300  CA  THR B 403     -19.200   2.181 -30.671  1.00 95.95      B
ATOM   7301  CB  THR B 403     -17.868   2.607 -31.349  1.00 96.29      B
ATOM   7302  OG1 THR B 403     -18.120   3.630 -32.328  1.00 96.12      B
ATOM   7303  CG2 THR B 403     -17.227   1.381 -32.032  1.00 95.84      B
ATOM   7304  C   THR B 403     -19.025   2.548 -29.194  1.00 95.76      B
ATOM   7305  O   THR B 403     -18.031   3.187 -28.813  1.00 94.88      B
ATOM   7306  N   PRO B 404     -20.009   2.229 -28.353  1.00 96.04      B
ATOM   7307  CD  PRO B 404     -21.472   2.334 -28.494  1.00 95.80      B
ATOM   7308  CA  PRO B 404     -19.593   2.596 -26.998  1.00 95.70      B
ATOM   7309  CB  PRO B 404     -20.906   2.796 -26.251  1.00 95.83      B
ATOM   7310  CG  PRO B 404     -21.845   3.210 -27.315  1.00 95.52      B
ATOM   7311  C   PRO B 404     -19.012   1.184 -26.720  1.00 95.57      B
ATOM   7312  O   PRO B 404     -18.963   0.357 -27.638  1.00 95.83      B
ATOM   7313  N   ILE B 405     -18.568   0.876 -25.512  1.00 95.00      B
ATOM   7314  CA  ILE B 405     -18.068  -0.478 -25.245  1.00 94.18      B
ATOM   7315  CB  ILE B 405     -16.523  -0.562 -25.397  1.00 94.87      B
ATOM   7316  CG2 ILE B 405     -15.963  -1.778 -24.679  1.00 95.04      B
ATOM   7317  CG1 ILE B 405     -16.169  -0.702 -26.887  1.00 95.76      B
ATOM   7318  CD1 ILE B 405     -16.749  -1.966 -27.574  1.00 95.79      B
ATOM   7319  C   ILE B 405     -18.530  -0.808 -23.842  1.00 93.47      B
ATOM   7320  O   ILE B 405     -18.144  -1.801 -23.211  1.00 93.15      B
ATOM   7321  N   ASN B 406     -19.400   0.074 -23.383  1.00 92.25      B
ATOM   7322  CA  ASN B 406     -20.016  -0.011 -22.084  1.00 90.48      B
ATOM   7323  CB  ASN B 406     -21.048   1.121 -21.975  1.00 92.23      B
ATOM   7324  CG  ASN B 406     -21.784   1.357 -23.297  1.00 93.06      B
ATOM   7325  OD1 ASN B 406     -21.916   0.433 -24.109  1.00 92.92      B
ATOM   7326  ND2 ASN B 406     -22.265   2.584 -23.517  1.00 93.57      B
ATOM   7327  C   ASN B 406     -20.684  -1.379 -21.874  1.00 88.20      B
ATOM   7328  O   ASN B 406     -20.509  -2.323 -22.656  1.00 87.43      B
ATOM   7329  N   SER B 407     -21.455  -1.448 -20.797  1.00 85.57      B
ATOM   7330  CA  SER B 407     -22.188  -2.633 -20.396  1.00 82.51      B
ATOM   7331  CB  SER B 407     -23.419  -2.824 -21.288  1.00 81.67      B
ATOM   7332  OG  SER B 407     -23.060  -3.285 -22.570  1.00 81.72      B
ATOM   7333  C   SER B 407     -21.308  -3.883 -20.394  1.00 80.84      B
ATOM   7334  O   SER B 407     -20.692  -4.192 -19.375  1.00 80.63      B
ATOM   7335  N   TRP B 408     -21.209  -4.587 -21.519  1.00 77.93      B
ATOM   7336  CA  TRP B 408     -20.399  -5.799 -21.530  1.00 74.87      B
ATOM   7337  CB  TRP B 408     -20.125  -6.294 -22.964  1.00 74.84      B
ATOM   7338  CG  TRP B 408     -19.014  -5.624 -23.733  1.00 75.03      B
ATOM   7339  CD2 TRP B 408     -17.614  -5.931 -23.660  1.00 74.79      B
ATOM   7340  CE2 TRP B 408     -16.953  -5.087 -24.586  1.00 74.66      B
ATOM   7341  CE3 TRP B 408     -16.852  -6.837 -22.903  1.00 74.82      B
ATOM   7342  CD1 TRP B 408     -19.141  -4.633 -24.670  1.00 74.67      B
ATOM   7343  NE1 TRP B 408     -17.908  -4.308 -25.187  1.00 74.50      B
ATOM   7344  CZ2 TRP B 408     -15.565  -5.121 -24.776  1.00 74.27      B
ATOM   7345  CZ3 TRP B 408     -15.471  -6.871 -23.092  1.00 74.20      B
ATOM   7346  CH2 TRP B 408     -14.844  -6.016 -24.023  1.00 74.04      B
ATOM   7347  C   TRP B 408     -19.096  -5.612 -20.756  1.00 72.68      B
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ATOM	7348	O	TRP	B	408	-18.864	-6.294	-19.755	1.00	73.02	B
ATOM	7349	N	LEU	B	409	-18.267	-4.669	-21.189	1.00	70.17	B
ATOM	7350	CA	LEU	B	409	-16.999	-4.425	-20.518	1.00	67.26	B
ATOM	7351	CB	LEU	B	409	-16.284	-3.220	-21.143	1.00	66.67	B
ATOM	7352	CG	LEU	B	409	-14.927	-2.860	-20.533	1.00	65.53	B
ATOM	7353	CD1	LEU	B	409	-14.055	-4.106	-20.431	1.00	65.82	B
ATOM	7354	CD2	LEU	B	409	-14.254	-1.799	-21.382	1.00	65.42	B
ATOM	7355	C	LEU	B	409	-17.263	-4.179	-19.040	1.00	65.13	B
ATOM	7356	O	LEU	B	409	-16.772	-4.908	-18.176	1.00	64.95	B
ATOM	7357	N	GLY	B	410	-18.059	-3.156	-18.758	1.00	62.91	B
ATOM	7358	CA	GLY	B	410	-18.381	-2.840	-17.381	1.00	60.37	B
ATOM	7359	C	GLY	B	410	-18.903	-4.055	-16.647	1.00	58.65	B
ATOM	7360	O	GLY	B	410	-18.412	-4.395	-15.567	1.00	58.33	B
ATOM	7361	N	ASN	B	411	-19.896	-4.713	-17.244	1.00	57.09	B
ATOM	7362	CA	ASN	B	411	-20.502	-5.902	-16.658	1.00	55.21	B
ATOM	7363	CB	ASN	B	411	-21.487	-6.555	-17.631	1.00	53.99	B
ATOM	7364	CG	ASN	B	411	-22.902	-6.009	-17.496	1.00	53.04	B
ATOM	7365	OD1	ASN	B	411	-23.403	-5.785	-16.381	1.00	49.12	B
ATOM	7366	ND2	ASN	B	411	-23.564	-5.813	-18.636	1.00	52.85	B
ATOM	7367	C	ASN	B	411	-19.451	-6.919	-16.254	1.00	54.81	B
ATOM	7368	O	ASN	B	411	-19.511	-7.471	-15.155	1.00	54.28	B
ATOM	7369	N	ILE	B	412	-18.493	-7.169	-17.142	1.00	54.35	B
ATOM	7370	CA	ILE	B	412	-17.428	-8.119	-16.848	1.00	55.05	B
ATOM	7371	CB	ILE	B	412	-16.449	-8.257	-18.032	1.00	55.58	B
ATOM	7372	CG2	ILE	B	412	-15.201	-9.018	-17.593	1.00	55.35	B
ATOM	7373	CG1	ILE	B	412	-17.121	-8.994	-19.191	1.00	56.05	B
ATOM	7374	CD1	ILE	B	412	-16.179	-9.265	-20.352	1.00	54.75	B
ATOM	7375	C	ILE	B	412	-16.645	-7.638	-15.629	1.00	56.10	B
ATOM	7376	O	ILE	B	412	-16.544	-8.335	-14.614	1.00	55.34	B
ATOM	7377	N	ILE	B	413	-16.089	-6.437	-15.741	1.00	56.54	B
ATOM	7378	CA	ILE	B	413	-15.316	-5.857	-14.658	1.00	56.44	B
ATOM	7379	CB	ILE	B	413	-14.999	-4.378	-14.926	1.00	56.67	B
ATOM	7380	CG2	ILE	B	413	-14.187	-3.808	-13.771	1.00	56.48	B
ATOM	7381	CG1	ILE	B	413	-14.229	-4.242	-16.243	1.00	57.44	B
ATOM	7382	CD1	ILE	B	413	-13.909	-2.810	-16.618	1.00	56.20	B
ATOM	7383	C	ILE	B	413	-16.073	-5.949	-13.343	1.00	56.43	B
ATOM	7384	O	ILE	B	413	-15.525	-6.389	-12.338	1.00	57.02	B
ATOM	7385	N	MET	B	414	-17.340	-5.548	-13.362	1.00	55.71	B
ATOM	7386	CA	MET	B	414	-18.164	-5.562	-12.156	1.00	55.50	B
ATOM	7387	CB	MET	B	414	-19.355	-4.603	-12.325	1.00	55.92	B
ATOM	7388	CG	MET	B	414	-18.969	-3.122	-12.510	1.00	56.41	B
ATOM	7389	SD	MET	B	414	-17.937	-2.429	-11.164	1.00	56.10	B
ATOM	7390	CE	MET	B	414	-19.152	-2.328	-9.810	1.00	52.43	B
ATOM	7391	C	MET	B	414	-18.679	-6.931	-11.704	1.00	55.03	B
ATOM	7392	O	MET	B	414	-18.881	-7.152	-10.512	1.00	54.02	B
ATOM	7393	N	TYR	B	415	-18.892	-7.852	-12.639	1.00	55.20	B
ATOM	7394	CA	TYR	B	415	-19.403	-9.177	-12.280	1.00	55.03	B
ATOM	7395	CB	TYR	B	415	-20.744	-9.424	-12.971	1.00	52.56	B
ATOM	7396	CG	TYR	B	415	-21.865	-8.556	-12.439	1.00	50.60	B
ATOM	7397	CD1	TYR	B	415	-22.502	-8.859	-11.235	1.00	50.04	B
ATOM	7398	CE1	TYR	B	415	-23.544	-8.061	-10.748	1.00	48.86	B
ATOM	7399	CD2	TYR	B	415	-22.292	-7.433	-13.143	1.00	50.20	B
ATOM	7400	CE2	TYR	B	415	-23.329	-6.631	-12.668	1.00	49.24	B
ATOM	7401	CZ	TYR	B	415	-23.952	-6.950	-11.475	1.00	48.82	B
ATOM	7402	OH	TYR	B	415	-25.001	-6.174	-11.036	1.00	48.10	B
ATOM	7403	C	TYR	B	415	-18.448	-10.317	-12.601	1.00	55.84	B
ATOM	7404	O	TYR	B	415	-18.854	-11.480	-12.648	1.00	55.75	B
ATOM	7405	N	ALA	B	416	-17.179	-9.966	-12.797	1.00	56.91	B
ATOM	7406	CA	ALA	B	416	-16.113	-10.913	-13.120	1.00	57.29	B
ATOM	7407	CB	ALA	B	416	-14.766	-10.299	-12.764	1.00	57.66	B
ATOM	7408	C	ALA	B	416	-16.246	-12.287	-12.458	1.00	58.01	B
ATOM	7409	O	ALA	B	416	-15.929	-13.311	-13.067	1.00	57.96	B
ATOM	7410	N	PRO	B	417	-16.699	-12.328	-11.195	1.00	58.65	B
ATOM	7411	CD	PRO	B	417	-16.762	-11.207	-10.246	1.00	58.48	B
ATOM	7412	CA	PRO	B	417	-16.861	-13.605	-10.483	1.00	59.41	B
ATOM	7413	CB	PRO	B	417	-17.033	-13.171	-9.026	1.00	59.87	B
ATOM	7414	CG	PRO	B	417	-16.326	-11.868	-8.974	1.00	59.80	B
ATOM	7415	C	PRO	B	417	-18.052	-14.451	-10.944	1.00	59.08	B
ATOM	7416	O	PRO	B	417	-18.083	-15.660	-10.716	1.00	58.54	B
ATOM	7417	N	THR	B	418	-19.032	-13.821	-11.583	1.00	58.59	B
ATOM	7418	CA	THR	B	418	-20.216	-14.551	-12.016	1.00	58.58	B
ATOM	7419	CB	THR	B	418	-21.343	-13.615	-12.468	1.00	58.29	B
ATOM	7420	OG1	THR	B	418	-21.080	-13.175	-13.804	1.00	58.02	B
ATOM	7421	CG2	THR	B	418	-21.458	-12.413	-11.535	1.00	59.42	B
ATOM	7422	C	THR	B	418	-19.969	-15.531	-13.149	1.00	58.38	B

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ATOM   7423  O   THR B 418     -19.133 -15.305 -14.027  1.00 57.95      B
ATOM   7424  N   LEU B 419     -20.728 -16.623 -13.105  1.00 57.99      B
ATOM   7425  CA  LEU B 419     -20.677 -17.690 -14.095  1.00 56.48      B
ATOM   7426  CB  LEU B 419     -21.859 -18.635 -13.884  1.00 57.18      B
ATOM   7427  CG  LEU B 419     -21.889 -19.931 -14.689  1.00 57.91      B
ATOM   7428  CD1 LEU B 419     -20.873 -20.907 -14.095  1.00 58.86      B
ATOM   7429  CD2 LEU B 419     -23.285 -20.526 -14.639  1.00 57.17      B
ATOM   7430  C   LEU B 419     -20.759 -17.094 -15.499  1.00 55.65      B
ATOM   7431  O   LEU B 419     -19.809 -17.180 -16.277  1.00 56.46      B
ATOM   7432  N   TRP B 420     -21.900 -16.484 -15.808  1.00 53.54      B
ATOM   7433  CA  TRP B 420     -22.121 -15.878 -17.114  1.00 52.71      B
ATOM   7434  CB  TRP B 420     -23.450 -15.104 -17.147  1.00 50.60      B
ATOM   7435  CG  TRP B 420     -23.768 -14.346 -15.900  1.00 46.84      B
ATOM   7436  CD2 TRP B 420     -23.717 -12.929 -15.722  1.00 44.98      B
ATOM   7437  CE2 TRP B 420     -24.092 -12.664 -14.388  1.00 44.82      B
ATOM   7438  CE3 TRP B 420     -23.390 -11.856 -16.559  1.00 43.60      B
ATOM   7439  CD1 TRP B 420     -24.160 -14.868 -14.702  1.00 46.11      B
ATOM   7440  NE1 TRP B 420     -24.357 -13.866 -13.788  1.00 44.70      B
ATOM   7441  CZ2 TRP B 420     -24.149 -11.365 -13.869  1.00 44.91      B
ATOM   7442  CZ3 TRP B 420     -23.446 -10.565 -16.043  1.00 42.93      B
ATOM   7443  CH2 TRP B 420     -23.822 -10.333 -14.711  1.00 43.75      B
ATOM   7444  C   TRP B 420     -21.001 -14.961 -17.579  1.00 53.47      B
ATOM   7445  O   TRP B 420     -20.485 -15.119 -18.687  1.00 54.31      B
ATOM   7446  N   ALA B 421     -20.628 -14.002 -16.740  1.00 53.92      B
ATOM   7447  CA  ALA B 421     -19.574 -13.061 -17.092  1.00 53.80      B
ATOM   7448  CB  ALA B 421     -19.273 -12.151 -15.919  1.00 53.88      B
ATOM   7449  C   ALA B 421     -18.307 -13.785 -17.519  1.00 54.77      B
ATOM   7450  O   ALA B 421     -17.627 -13.354 -18.453  1.00 55.06      B
ATOM   7451  N   ARG B 422     -18.003 -14.892 -16.841  1.00 54.99      B
ATOM   7452  CA  ARG B 422     -16.804 -15.676 -17.134  1.00 55.58      B
ATOM   7453  CB  ARG B 422     -16.460 -16.582 -15.950  1.00 54.06      B
ATOM   7454  CG  ARG B 422     -16.359 -15.892 -14.602  1.00 53.26      B
ATOM   7455  CD  ARG B 422     -15.979 -16.899 -13.517  1.00 51.34      B
ATOM   7456  NE  ARG B 422     -14.628 -17.409 -13.727  1.00 50.48      B
ATOM   7457  CZ  ARG B 422     -14.084 -18.411 -13.046  1.00 49.83      B
ATOM   7458  NH1 ARG B 422     -14.779 -19.025 -12.099  1.00 48.20      B
ATOM   7459  NH2 ARG B 422     -12.838 -18.795 -13.313  1.00 49.74      B
ATOM   7460  C   ARG B 422     -16.929 -16.543 -18.392  1.00 56.87      B
ATOM   7461  O   ARG B 422     -16.231 -16.328 -19.390  1.00 56.58      B
ATOM   7462  N   MET B 423     -17.823 -17.525 -18.328  1.00 57.78      B
ATOM   7463  CA  MET B 423     -18.044 -18.452 -19.428  1.00 58.71      B
ATOM   7464  CB  MET B 423     -19.010 -19.556 -18.996  1.00 59.28      B
ATOM   7465  CG  MET B 423     -18.470 -20.484 -17.931  1.00 59.44      B
ATOM   7466  SD  MET B 423     -19.643 -21.801 -17.537  1.00 61.94      B
ATOM   7467  CE  MET B 423     -19.084 -23.146 -18.655  1.00 59.81      B
ATOM   7468  C   MET B 423     -18.558 -17.836 -20.722  1.00 59.21      B
ATOM   7469  O   MET B 423     -18.086 -18.179 -21.804  1.00 60.06      B
ATOM   7470  N   ILE B 424     -19.525 -16.933 -20.623  1.00 58.89      B
ATOM   7471  CA  ILE B 424     -20.091 -16.330 -21.822  1.00 59.05      B
ATOM   7472  CB  ILE B 424     -21.584 -15.987 -21.617  1.00 59.75      B
ATOM   7473  CG2 ILE B 424     -22.211 -15.569 -22.945  1.00 58.18      B
ATOM   7474  CG1 ILE B 424     -22.320 -17.196 -21.036  1.00 59.19      B
ATOM   7475  CD1 ILE B 424     -23.773 -16.933 -20.738  1.00 60.36      B
ATOM   7476  C   ILE B 424     -19.373 -15.077 -22.310  1.00 59.14      B
ATOM   7477  O   ILE B 424     -18.611 -15.128 -23.280  1.00 58.46      B
ATOM   7478  N   LEU B 425     -19.628 -13.957 -21.633  1.00 59.84      B
ATOM   7479  CA  LEU B 425     -19.047 -12.664 -21.992  1.00 60.45      B
ATOM   7480  CB  LEU B 425     -19.341 -11.627 -20.905  1.00 59.95      B
ATOM   7481  CG  LEU B 425     -20.773 -11.090 -20.884  1.00 59.95      B
ATOM   7482  CD1 LEU B 425     -20.859  -9.909 -19.917  1.00 59.10      B
ATOM   7483  CD2 LEU B 425     -21.179 -10.654 -22.282  1.00 59.06      B
ATOM   7484  C   LEU B 425     -17.556 -12.649 -22.315  1.00 61.19      B
ATOM   7485  O   LEU B 425     -17.158 -12.153 -23.368  1.00 61.23      B
ATOM   7486  N   MET B 426     -16.726 -13.171 -21.420  1.00 62.15      B
ATOM   7487  CA  MET B 426     -15.294 -13.186 -21.691  1.00 63.41      B
ATOM   7488  CB  MET B 426     -14.530 -13.787 -20.517  1.00 62.81      B
ATOM   7489  CG  MET B 426     -14.854 -13.126 -19.202  1.00 62.93      B
ATOM   7490  SD  MET B 426     -13.693 -13.574 -17.926  1.00 63.00      B
ATOM   7491  CE  MET B 426     -13.706 -12.100 -16.912  1.00 63.19      B
ATOM   7492  C   MET B 426     -15.032 -13.999 -22.951  1.00 64.59      B
ATOM   7493  O   MET B 426     -14.516 -13.484 -23.944  1.00 65.44      B
ATOM   7494  N   THR B 427     -15.400 -15.272 -22.909  1.00 65.21      B
ATOM   7495  CA  THR B 427     -15.208 -16.142 -24.055  1.00 65.69      B
ATOM   7496  CB  THR B 427     -16.041 -17.419 -23.916  1.00 64.79      B
ATOM   7497  OG1 THR B 427     -15.718 -18.064 -22.679  1.00 64.39      B
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ATOM   7498  CG2 THR B 427     -15.745 -18.370 -25.066  1.00 65.10      B
ATOM   7499  C   THR B 427     -15.599 -15.450 -25.358  1.00 66.93      B
ATOM   7500  O   THR B 427     -14.790 -15.343 -26.278  1.00 66.78      B
ATOM   7501  N   HIS B 428     -16.835 -14.964 -25.423  1.00 68.01      B
ATOM   7502  CA  HIS B 428     -17.331 -14.314 -26.632  1.00 70.25      B
ATOM   7503  CB  HIS B 428     -18.788 -13.879 -26.458  1.00 71.72      B
ATOM   7504  CG  HIS B 428     -19.362 -13.205 -27.669  1.00 73.09      B
ATOM   7505  CD2 HIS B 428     -19.575 -11.895 -27.943  1.00 73.35      B
ATOM   7506  ND1 HIS B 428     -19.763 -13.901 -28.791  1.00 73.29      B
ATOM   7507  CE1 HIS B 428     -20.199 -13.049 -29.703  1.00 73.27      B
ATOM   7508  NE2 HIS B 428     -20.095 -11.826 -29.213  1.00 73.74      B
ATOM   7509  C   HIS B 428     -16.526 -13.109 -27.083  1.00 71.06      B
ATOM   7510  O   HIS B 428     -15.844 -13.158 -28.107  1.00 71.05      B
ATOM   7511  N   PHE B 429     -16.629 -12.019 -26.327  1.00 72.30      B
ATOM   7512  CA  PHE B 429     -15.926 -10.783 -26.653  1.00 73.46      B
ATOM   7513  CB  PHE B 429     -16.215  -9.715 -25.591  1.00 73.24      B
ATOM   7514  CG  PHE B 429     -17.485  -8.950 -25.848  1.00 72.71      B
ATOM   7515  CD1 PHE B 429     -17.530  -7.973 -26.837  1.00 71.34      B
ATOM   7516  CD2 PHE B 429     -18.649  -9.245 -25.147  1.00 72.72      B
ATOM   7517  CE1 PHE B 429     -18.713  -7.301 -27.131  1.00 71.11      B
ATOM   7518  CE2 PHE B 429     -19.840  -8.579 -25.433  1.00 72.50      B
ATOM   7519  CZ  PHE B 429     -19.871  -7.603 -26.431  1.00 71.91      B
ATOM   7520  C   PHE B 429     -14.425 -10.948 -26.860  1.00 74.33      B
ATOM   7521  O   PHE B 429     -13.826 -10.233 -27.668  1.00 74.17      B
ATOM   7522  N   PHE B 430     -13.810 -11.882 -26.142  1.00 75.25      B
ATOM   7523  CA  PHE B 430     -12.384 -12.104 -26.336  1.00 77.04      B
ATOM   7524  CB  PHE B 430     -11.804 -13.013 -25.248  1.00 78.01      B
ATOM   7525  CG  PHE B 430     -11.086 -12.266 -24.151  1.00 78.63      B
ATOM   7526  CD1 PHE B 430     -11.796 -11.612 -23.146  1.00 78.99      B
ATOM   7527  CD2 PHE B 430      -9.696 -12.207 -24.132  1.00 78.46      B
ATOM   7528  CE1 PHE B 430     -11.129 -10.911 -22.136  1.00 78.96      B
ATOM   7529  CE2 PHE B 430      -9.019 -11.509 -23.129  1.00 78.62      B
ATOM   7530  CZ  PHE B 430      -9.737 -10.860 -22.128  1.00 78.91      B
ATOM   7531  C   PHE B 430     -12.166 -12.729 -27.715  1.00 77.50      B
ATOM   7532  O   PHE B 430     -11.103 -12.581 -28.317  1.00 78.00      B
ATOM   7533  N   SER B 431     -13.181 -13.429 -28.214  1.00 77.63      B
ATOM   7534  CA  SER B 431     -13.093 -14.040 -29.532  1.00 77.21      B
ATOM   7535  CB  SER B 431     -14.304 -14.938 -29.803  1.00 76.60      B
ATOM   7536  OG  SER B 431     -14.296 -16.072 -28.953  1.00 76.92      B
ATOM   7537  C   SER B 431     -13.070 -12.900 -30.529  1.00 77.68      B
ATOM   7538  O   SER B 431     -12.081 -12.696 -31.232  1.00 78.15      B
ATOM   7539  N   ILE B 432     -14.163 -12.141 -30.565  1.00 78.34      B
ATOM   7540  CA  ILE B 432     -14.287 -11.005 -31.471  1.00 78.96      B
ATOM   7541  CB  ILE B 432     -15.637 -10.281 -31.265  1.00 78.65      B
ATOM   7542  CG2 ILE B 432     -15.792  -9.162 -32.281  1.00 78.17      B
ATOM   7543  CG1 ILE B 432     -16.786 -11.284 -31.425  1.00 79.11      B
ATOM   7544  CD1 ILE B 432     -18.170 -10.675 -31.284  1.00 79.44      B
ATOM   7545  C   ILE B 432     -13.134 -10.013 -31.280  1.00 79.71      B
ATOM   7546  O   ILE B 432     -12.964  -9.078 -32.071  1.00 79.20      B
ATOM   7547  N   LEU B 433     -12.343 -10.223 -30.229  1.00 80.77      B
ATOM   7548  CA  LEU B 433     -11.198  -9.358 -29.954  1.00 81.81      B
ATOM   7549  CB  LEU B 433     -10.723  -9.505 -28.500  1.00 81.61      B
ATOM   7550  CG  LEU B 433     -11.236  -8.463 -27.499  1.00 81.77      B
ATOM   7551  CD1 LEU B 433     -10.588  -8.714 -26.145  1.00 81.95      B
ATOM   7552  CD2 LEU B 433     -10.902  -7.048 -27.986  1.00 81.01      B
ATOM   7553  C   LEU B 433     -10.051  -9.681 -30.902  1.00 82.16      B
ATOM   7554  O   LEU B 433      -9.899  -9.026 -31.936  1.00 82.37      B
ATOM   7555  N   LEU B 434      -9.252 -10.691 -30.554  1.00 82.40      B
ATOM   7556  CA  LEU B 434      -8.123 -11.089 -31.392  1.00 82.45      B
ATOM   7557  CB  LEU B 434      -7.498 -12.404 -30.897  1.00 81.58      B
ATOM   7558  CG  LEU B 434      -8.252 -13.317 -29.927  1.00 80.64      B
ATOM   7559  CD1 LEU B 434      -7.481 -14.623 -29.747  1.00 80.32      B
ATOM   7560  CD2 LEU B 434      -8.412 -12.617 -28.589  1.00 80.17      B
ATOM   7561  C   LEU B 434      -8.595 -11.246 -32.832  1.00 82.73      B
ATOM   7562  O   LEU B 434      -7.811 -11.123 -33.774  1.00 82.60      B
ATOM   7563  N   ALA B 435      -9.891 -11.499 -32.990  1.00 83.07      B
ATOM   7564  CA  ALA B 435     -10.489 -11.657 -34.306  1.00 83.67      B
ATOM   7565  CB  ALA B 435     -11.965 -12.038 -34.168  1.00 83.18      B
ATOM   7566  C   ALA B 435     -10.353 -10.351 -35.087  1.00 84.15      B
ATOM   7567  O   ALA B 435     -10.781 -10.261 -36.236  1.00 84.01      B
ATOM   7568  N   GLN B 436      -9.760  -9.341 -34.455  1.00 84.93      B
ATOM   7569  CA  GLN B 436      -9.563  -8.034 -35.080  1.00 86.13      B
ATOM   7570  CB  GLN B 436     -10.803  -7.159 -34.875  1.00 86.06      B
ATOM   7571  CG  GLN B 436     -12.119  -7.893 -35.084  1.00 87.44      B
ATOM   7572  CD  GLN B 436     -13.319  -6.968 -35.072  1.00 88.34      B
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ATOM   7573  OE1 GLN B 436     -13.368  -6.011 -34.296  1.00 88.86      B
ATOM   7574  NE2 GLN B 436     -14.305  -7.258 -35.926  1.00 88.89      B
ATOM   7575  C   GLN B 436      -8.341  -7.344 -34.469  1.00 86.81      B
ATOM   7576  O   GLN B 436      -8.031  -6.196 -34.791  1.00 86.38      B
ATOM   7577  N   GLU B 437      -7.665  -8.063 -33.579  1.00 88.42      B
ATOM   7578  CA  GLU B 437      -6.468  -7.579 -32.891  1.00 90.23      B
ATOM   7579  CB  GLU B 437      -5.399  -7.181 -33.924  1.00 90.76      B
ATOM   7580  CG  GLU B 437      -4.013  -6.923 -33.330  1.00 91.27      B
ATOM   7581  CD  GLU B 437      -3.543  -8.070 -32.439  1.00 91.82      B
ATOM   7582  OE1 GLU B 437      -3.438  -9.213 -32.940  1.00 91.66      B
ATOM   7583  OE2 GLU B 437      -3.286  -7.829 -31.236  1.00 92.11      B
ATOM   7584  C   GLU B 437      -6.733  -6.411 -31.926  1.00 91.14      B
ATOM   7585  O   GLU B 437      -5.821  -5.647 -31.595  1.00 91.19      B
ATOM   7586  N   GLN B 438      -7.975  -6.285 -31.460  1.00 92.03      B
ATOM   7587  CA  GLN B 438      -8.350  -5.199 -30.551  1.00 92.20      B
ATOM   7588  CB  GLN B 438      -9.846  -4.914 -30.670  1.00 92.42      B
ATOM   7589  CG  GLN B 438     -10.269  -4.522 -32.073  1.00 93.31      B
ATOM   7590  CD  GLN B 438     -11.733  -4.128 -32.161  1.00 93.66      B
ATOM   7591  OE1 GLN B 438     -12.625  -4.912 -31.817  1.00 92.67      B
ATOM   7592  NE2 GLN B 438     -11.988  -2.905 -32.627  1.00 93.99      B
ATOM   7593  C   GLN B 438      -7.996  -5.422 -29.082  1.00 92.49      B
ATOM   7594  O   GLN B 438      -8.536  -4.750 -28.200  1.00 92.71      B
ATOM   7595  N   LEU B 439      -7.084  -6.355 -28.819  1.00 92.58      B
ATOM   7596  CA  LEU B 439      -6.662  -6.649 -27.449  1.00 92.23      B
ATOM   7597  CB  LEU B 439      -5.684  -7.831 -27.433  1.00 92.43      B
ATOM   7598  CG  LEU B 439      -6.222  -9.180 -27.925  1.00 92.83      B
ATOM   7599  CD1 LEU B 439      -5.067 -10.160 -28.130  1.00 92.84      B
ATOM   7600  CD2 LEU B 439      -7.235  -9.722 -26.919  1.00 92.22      B
ATOM   7601  C   LEU B 439      -5.986  -5.415 -26.876  1.00 91.93      B
ATOM   7602  O   LEU B 439      -5.645  -5.357 -25.692  1.00 91.24      B
ATOM   7603  N   GLU B 440      -5.809  -4.421 -27.737  1.00 92.26      B
ATOM   7604  CA  GLU B 440      -5.164  -3.173 -27.357  1.00 92.85      B
ATOM   7605  CB  GLU B 440      -4.277  -2.688 -28.509  1.00 93.72      B
ATOM   7606  CG  GLU B 440      -3.454  -3.796 -29.170  1.00 95.11      B
ATOM   7607  CD  GLU B 440      -2.261  -4.248 -28.323  1.00 95.84      B
ATOM   7608  OE1 GLU B 440      -1.293  -3.459 -28.175  1.00 95.34      B
ATOM   7609  OE2 GLU B 440      -2.296  -5.391 -27.808  1.00 96.31      B
ATOM   7610  C   GLU B 440      -6.189  -2.091 -27.011  1.00 92.60      B
ATOM   7611  O   GLU B 440      -6.427  -1.787 -25.836  1.00 92.29      B
ATOM   7612  N   LYS B 441      -6.790  -1.529 -28.056  1.00 92.13      B
ATOM   7613  CA  LYS B 441      -7.778  -0.461 -27.945  1.00 92.33      B
ATOM   7614  CB  LYS B 441      -8.844  -0.623 -29.036  1.00 92.62      B
ATOM   7615  CG  LYS B 441      -9.899   0.484 -29.024  1.00 93.71      B
ATOM   7616  CD  LYS B 441     -11.067   0.211 -29.984  1.00 94.26      B
ATOM   7617  CE  LYS B 441     -10.669   0.321 -31.457  1.00 94.82      B
ATOM   7618  NZ  LYS B 441     -11.832   0.027 -32.360  1.00 93.96      B
ATOM   7619  C   LYS B 441      -8.466  -0.310 -26.580  1.00 92.69      B
ATOM   7620  O   LYS B 441      -9.360  -1.088 -26.228  1.00 93.03      B
ATOM   7621  N   ALA B 442      -8.040   0.698 -25.816  1.00 92.16      B
ATOM   7622  CA  ALA B 442      -8.627   0.992 -24.508  1.00 90.52      B
ATOM   7623  CB  ALA B 442      -7.762   1.992 -23.750  1.00 90.17      B
ATOM   7624  C   ALA B 442      -9.998   1.592 -24.804  1.00 89.48      B
ATOM   7625  O   ALA B 442     -10.121   2.470 -25.657  1.00 89.23      B
ATOM   7626  N   LEU B 443     -11.027   1.119 -24.107  1.00 88.22      B
ATOM   7627  CA  LEU B 443     -12.384   1.600 -24.354  1.00 86.51      B
ATOM   7628  CB  LEU B 443     -13.139   0.546 -25.158  1.00 87.12      B
ATOM   7629  CG  LEU B 443     -12.458   0.291 -26.503  1.00 88.00      B
ATOM   7630  CD1 LEU B 443     -12.696  -1.148 -26.961  1.00 88.16      B
ATOM   7631  CD2 LEU B 443     -12.973   1.311 -27.518  1.00 88.39      B
ATOM   7632  C   LEU B 443     -13.183   1.991 -23.115  1.00 84.73      B
ATOM   7633  O   LEU B 443     -13.142   1.319 -22.085  1.00 84.70      B
ATOM   7634  N   ASP B 444     -13.921   3.090 -23.253  1.00 82.70      B
ATOM   7635  CA  ASP B 444     -14.750   3.673 -22.195  1.00 80.10      B
ATOM   7636  CB  ASP B 444     -15.403   4.963 -22.721  1.00 80.28      B
ATOM   7637  CG  ASP B 444     -14.517   5.706 -23.719  1.00 80.39      B
ATOM   7638  OD1 ASP B 444     -13.522   6.345 -23.299  1.00 80.09      B
ATOM   7639  OD2 ASP B 444     -14.814   5.633 -24.932  1.00 79.76      B
ATOM   7640  C   ASP B 444     -15.843   2.758 -21.637  1.00 77.56      B
ATOM   7641  O   ASP B 444     -16.463   1.987 -22.368  1.00 77.80      B
ATOM   7642  N   CYS B 445     -16.073   2.856 -20.333  1.00 74.33      B
ATOM   7643  CA  CYS B 445     -17.114   2.076 -19.678  1.00 71.51      B
ATOM   7644  CB  CYS B 445     -16.601   0.677 -19.306  1.00 70.49      B
ATOM   7645  SG  CYS B 445     -15.437   0.569 -17.928  1.00 67.13      B
ATOM   7646  C   CYS B 445     -17.608   2.829 -18.441  1.00 70.43      B
ATOM   7647  O   CYS B 445     -16.877   3.632 -17.855  1.00 70.20      B
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ATOM	7648	N	GLN	B	446	-18.852	2.573	-18.056	1.00	68.63	B
ATOM	7649	CA	GLN	B	446	-19.452	3.243	-16.910	1.00	67.70	B
ATOM	7650	CB	GLN	B	446	-20.945	3.465	-17.169	1.00	67.78	B
ATOM	7651	CG	GLN	B	446	-21.249	4.450	-18.293	1.00	68.61	B
ATOM	7652	CD	GLN	B	446	-21.410	5.883	-17.792	1.00	68.51	B
ATOM	7653	OE1	GLN	B	446	-22.389	6.213	-17.113	1.00	67.99	B
ATOM	7654	NE2	GLN	B	446	-20.445	6.739	-18.123	1.00	68.43	B
ATOM	7655	C	GLN	B	446	-19.285	2.494	-15.594	1.00	66.52	B
ATOM	7656	O	GLN	B	446	-19.274	1.266	-15.563	1.00	66.87	B
ATOM	7657	N	ILE	B	447	-19.143	3.248	-14.509	1.00	64.93	B
ATOM	7658	CA	ILE	B	447	-19.030	2.680	-13.167	1.00	63.80	B
ATOM	7659	CB	ILE	B	447	-17.578	2.405	-12.751	1.00	63.49	B
ATOM	7660	CG2	ILE	B	447	-17.531	2.022	-11.272	1.00	63.10	B
ATOM	7661	CG1	ILE	B	447	-17.004	1.267	-13.596	1.00	63.31	B
ATOM	7662	CD1	ILE	B	447	-15.595	0.866	-13.216	1.00	62.22	B
ATOM	7663	C	ILE	B	447	-19.648	3.669	-12.189	1.00	63.76	B
ATOM	7664	O	ILE	B	447	-18.987	4.596	-11.713	1.00	62.56	B
ATOM	7665	N	TYR	B	448	-20.927	3.456	-11.894	1.00	64.18	B
ATOM	7666	CA	TYR	B	448	-21.668	4.338	-11.011	1.00	65.16	B
ATOM	7667	CB	TYR	B	448	-21.016	4.388	-9.626	1.00	64.06	B
ATOM	7668	CG	TYR	B	448	-21.033	3.073	-8.870	1.00	63.93	B
ATOM	7669	CD1	TYR	B	448	-22.163	2.243	-8.886	1.00	62.94	B
ATOM	7670	CE1	TYR	B	448	-22.202	1.055	-8.147	1.00	61.25	B
ATOM	7671	CD2	TYR	B	448	-19.938	2.678	-8.095	1.00	64.34	B
ATOM	7672	CE2	TYR	B	448	-19.968	1.493	-7.355	1.00	63.51	B
ATOM	7673	CZ	TYR	B	448	-21.099	0.687	-7.385	1.00	62.47	B
ATOM	7674	OH	TYR	B	448	-21.108	-0.482	-6.653	1.00	62.71	B
ATOM	7675	C	TYR	B	448	-21.675	5.730	-11.657	1.00	66.44	B
ATOM	7676	O	TYR	B	448	-21.286	6.728	-11.046	1.00	66.64	B
ATOM	7677	N	GLY	B	449	-22.107	5.770	-12.914	1.00	67.27	B
ATOM	7678	CA	GLY	B	449	-22.166	7.016	-13.653	1.00	68.44	B
ATOM	7679	C	GLY	B	449	-20.808	7.568	-14.036	1.00	69.58	B
ATOM	7680	O	GLY	B	449	-20.685	8.318	-15.003	1.00	70.29	B
ATOM	7681	N	ALA	B	450	-19.784	7.192	-13.279	1.00	70.95	B
ATOM	7682	CA	ALA	B	450	-18.431	7.669	-13.531	1.00	72.87	B
ATOM	7683	CB	ALA	B	450	-17.574	7.515	-12.263	1.00	72.46	B
ATOM	7684	C	ALA	B	450	-17.765	6.956	-14.703	1.00	74.06	B
ATOM	7685	O	ALA	B	450	-17.371	5.797	-14.594	1.00	74.30	B
ATOM	7686	N	CYS	B	451	-17.637	7.666	-15.819	1.00	75.97	B
ATOM	7687	CA	CYS	B	451	-17.005	7.126	-17.017	1.00	78.30	B
ATOM	7688	CB	CYS	B	451	-17.286	8.026	-18.224	1.00	78.74	B
ATOM	7689	SG	CYS	B	451	-16.290	7.596	-19.686	1.00	81.84	B
ATOM	7690	C	CYS	B	451	-15.491	6.975	-16.862	1.00	79.05	B
ATOM	7691	O	CYS	B	451	-14.827	7.798	-16.233	1.00	78.93	B
ATOM	7692	N	TYR	B	452	-14.958	5.907	-17.444	1.00	80.42	B
ATOM	7693	CA	TYR	B	452	-13.529	5.632	-17.413	1.00	81.95	B
ATOM	7694	CB	TYR	B	452	-13.230	4.437	-16.496	1.00	80.30	B
ATOM	7695	CG	TYR	B	452	-13.390	4.743	-15.019	1.00	79.28	B
ATOM	7696	CD1	TYR	B	452	-12.585	5.697	-14.388	1.00	79.27	B
ATOM	7697	CE1	TYR	B	452	-12.744	5.993	-13.024	1.00	78.87	B
ATOM	7698	CD2	TYR	B	452	-14.356	4.090	-14.254	1.00	79.21	B
ATOM	7699	CE2	TYR	B	452	-14.524	4.375	-12.896	1.00	78.48	B
ATOM	7700	CZ	TYR	B	452	-13.719	5.325	-12.289	1.00	78.43	B
ATOM	7701	OH	TYR	B	452	-13.899	5.610	-10.956	1.00	77.41	B
ATOM	7702	C	TYR	B	452	-13.078	5.344	-18.846	1.00	83.63	B
ATOM	7703	O	TYR	B	452	-13.442	6.073	-19.770	1.00	83.99	B
ATOM	7704	N	SER	B	453	-12.292	4.284	-19.021	1.00	85.29	B
ATOM	7705	CA	SER	B	453	-11.773	3.864	-20.331	1.00	87.20	B
ATOM	7706	CB	SER	B	453	-11.308	5.076	-21.153	1.00	87.34	B
ATOM	7707	OG	SER	B	453	-10.983	4.696	-22.482	1.00	87.59	B
ATOM	7708	C	SER	B	453	-10.598	2.903	-20.098	1.00	87.90	B
ATOM	7709	O	SER	B	453	-9.445	3.320	-19.969	1.00	88.72	B
ATOM	7710	N	ILE	B	454	-10.901	1.610	-20.062	1.00	87.73	B
ATOM	7711	CA	ILE	B	454	-9.896	0.592	-19.789	1.00	87.99	B
ATOM	7712	CB	ILE	B	454	-10.425	-0.354	-18.688	1.00	87.97	B
ATOM	7713	CG2	ILE	B	454	-9.322	-1.302	-18.216	1.00	87.56	B
ATOM	7714	CG1	ILE	B	454	-10.959	0.484	-17.520	1.00	88.19	B
ATOM	7715	CD1	ILE	B	454	-11.852	-0.272	-16.562	1.00	88.38	B
ATOM	7716	C	ILE	B	454	-9.453	-0.235	-20.992	1.00	88.52	B
ATOM	7717	O	ILE	B	454	-10.061	-0.188	-22.063	1.00	88.65	B
ATOM	7718	N	GLU	B	455	-8.369	-0.982	-20.794	1.00	88.76	B
ATOM	7719	CA	GLU	B	455	-7.814	-1.860	-21.815	1.00	89.23	B
ATOM	7720	CB	GLU	B	455	-6.285	-1.814	-21.816	1.00	89.91	B
ATOM	7721	CG	GLU	B	455	-5.633	-0.472	-22.094	1.00	90.37	B
ATOM	7722	CD	GLU	B	455	-4.133	-0.625	-22.342	1.00	90.96	B

ATOM	7723	OE1	GLU	B	455	-3.487	-1.404	-21.600	1.00	91.32	B
ATOM	7724	OE2	GLU	B	455	-3.601	0.026	-23.272	1.00	90.79	B
ATOM	7725	C	GLU	B	455	-8.242	-3.283	-21.473	1.00	89.28	B
ATOM	7726	O	GLU	B	455	-8.422	-3.619	-20.302	1.00	89.47	B
ATOM	7727	N	PRO	B	456	-8.409	-4.142	-22.486	1.00	89.24	B
ATOM	7728	CD	PRO	B	456	-8.444	-3.871	-23.933	1.00	89.70	B
ATOM	7729	CA	PRO	B	456	-8.818	-5.520	-22.200	1.00	88.73	B
ATOM	7730	CB	PRO	B	456	-9.000	-6.125	-23.591	1.00	89.34	B
ATOM	7731	CG	PRO	B	456	-9.394	-4.943	-24.428	1.00	89.74	B
ATOM	7732	C	PRO	B	456	-7.769	-6.274	-21.383	1.00	88.02	B
ATOM	7733	O	PRO	B	456	-8.095	-6.972	-20.422	1.00	87.96	B
ATOM	7734	N	LEU	B	457	-6.507	-6.118	-21.770	1.00	87.33	B
ATOM	7735	CA	LEU	B	457	-5.399	-6.801	-21.102	1.00	86.52	B
ATOM	7736	CB	LEU	B	457	-4.070	-6.369	-21.719	1.00	87.00	B
ATOM	7737	CG	LEU	B	457	-4.004	-6.504	-23.239	1.00	88.05	B
ATOM	7738	CD1	LEU	B	457	-2.656	-5.974	-23.729	1.00	88.70	B
ATOM	7739	CD2	LEU	B	457	-4.212	-7.965	-23.641	1.00	87.60	B
ATOM	7740	C	LEU	B	457	-5.327	-6.614	-19.591	1.00	85.41	B
ATOM	7741	O	LEU	B	457	-4.876	-7.509	-18.876	1.00	84.58	B
ATOM	7742	N	ASP	B	458	-5.775	-5.460	-19.107	1.00	84.06	B
ATOM	7743	CA	ASP	B	458	-5.734	-5.163	-17.677	1.00	83.56	B
ATOM	7744	CB	ASP	B	458	-5.975	-3.667	-17.452	1.00	83.76	B
ATOM	7745	CG	ASP	B	458	-4.780	-2.820	-17.846	1.00	84.39	B
ATOM	7746	OD1	ASP	B	458	-3.697	-3.013	-17.241	1.00	83.42	B
ATOM	7747	OD2	ASP	B	458	-4.919	-1.969	-18.755	1.00	84.16	B
ATOM	7748	C	ASP	B	458	-6.695	-5.961	-16.791	1.00	83.07	B
ATOM	7749	O	ASP	B	458	-6.401	-6.221	-15.616	1.00	83.02	B
ATOM	7750	N	LEU	B	459	-7.835	-6.350	-17.359	1.00	81.68	B
ATOM	7751	CA	LEU	B	459	-8.863	-7.094	-16.632	1.00	79.74	B
ATOM	7752	CB	LEU	B	459	-9.778	-7.831	-17.618	1.00	79.57	B
ATOM	7753	CG	LEU	B	459	-10.461	-6.992	-18.697	1.00	79.20	B
ATOM	7754	CD1	LEU	B	459	-11.282	-7.913	-19.584	1.00	78.67	B
ATOM	7755	CD2	LEU	B	459	-11.346	-5.923	-18.064	1.00	79.68	B
ATOM	7756	C	LEU	B	459	-8.354	-8.091	-15.588	1.00	78.71	B
ATOM	7757	O	LEU	B	459	-8.785	-8.062	-14.436	1.00	78.25	B
ATOM	7758	N	PRO	B	460	-7.433	-8.990	-15.976	1.00	77.48	B
ATOM	7759	CD	PRO	B	460	-6.814	-9.153	-17.304	1.00	76.53	B
ATOM	7760	CA	PRO	B	460	-6.904	-9.982	-15.030	1.00	76.88	B
ATOM	7761	CB	PRO	B	460	-5.746	-10.605	-15.806	1.00	76.31	B
ATOM	7762	CG	PRO	B	460	-6.239	-10.550	-17.214	1.00	76.12	B
ATOM	7763	C	PRO	B	460	-6.465	-9.414	-13.674	1.00	76.79	B
ATOM	7764	O	PRO	B	460	-6.901	-9.882	-12.619	1.00	76.06	B
ATOM	7765	N	GLN	B	461	-5.600	-8.404	-13.715	1.00	76.49	B
ATOM	7766	CA	GLN	B	461	-5.089	-7.770	-12.502	1.00	75.93	B
ATOM	7767	CB	GLN	B	461	-3.959	-6.793	-12.855	1.00	76.81	B
ATOM	7768	CG	GLN	B	461	-2.919	-7.352	-13.838	1.00	77.75	B
ATOM	7769	CD	GLN	B	461	-3.150	-6.893	-15.283	1.00	78.15	B
ATOM	7770	OE1	GLN	B	461	-2.967	-5.712	-15.619	1.00	77.64	B
ATOM	7771	NE2	GLN	B	461	-3.559	-7.827	-16.141	1.00	77.45	B
ATOM	7772	C	GLN	B	461	-6.206	-7.031	-11.766	1.00	75.29	B
ATOM	7773	O	GLN	B	461	-6.411	-7.224	-10.561	1.00	74.84	B
ATOM	7774	N	ILE	B	462	-6.926	-6.186	-12.501	1.00	74.68	B
ATOM	7775	CA	ILE	B	462	-8.039	-5.412	-11.944	1.00	73.38	B
ATOM	7776	CB	ILE	B	462	-8.834	-4.698	-13.048	1.00	72.41	B
ATOM	7777	CG2	ILE	B	462	-10.000	-3.947	-12.431	1.00	71.66	B
ATOM	7778	CG1	ILE	B	462	-7.912	-3.767	-13.838	1.00	71.82	B
ATOM	7779	CD1	ILE	B	462	-8.594	-3.085	-15.005	1.00	72.01	B
ATOM	7780	C	ILE	B	462	-9.013	-6.306	-11.186	1.00	72.95	B
ATOM	7781	O	ILE	B	462	-9.348	-6.040	-10.029	1.00	73.12	B
ATOM	7782	N	ILE	B	463	-9.466	-7.364	-11.855	1.00	71.90	B
ATOM	7783	CA	ILE	B	463	-10.403	-8.307	-11.260	1.00	70.84	B
ATOM	7784	CB	ILE	B	463	-10.648	-9.519	-12.184	1.00	69.91	B
ATOM	7785	CG2	ILE	B	463	-11.495	-10.570	-11.463	1.00	68.70	B
ATOM	7786	CG1	ILE	B	463	-11.344	-9.051	-13.465	1.00	68.40	B
ATOM	7787	CD1	ILE	B	463	-11.640	-10.156	-14.441	1.00	67.56	B
ATOM	7788	C	ILE	B	463	-9.931	-8.801	-9.902	1.00	71.13	B
ATOM	7789	O	ILE	B	463	-10.734	-8.925	-8.976	1.00	71.03	B
ATOM	7790	N	GLU	B	464	-8.636	-9.072	-9.772	1.00	72.24	B
ATOM	7791	CA	GLU	B	464	-8.113	-9.544	-8.496	1.00	74.07	B
ATOM	7792	CB	GLU	B	464	-6.660	-10.001	-8.619	1.00	75.20	B
ATOM	7793	CG	GLU	B	464	-6.036	-10.285	-7.258	1.00	77.24	B
ATOM	7794	CD	GLU	B	464	-4.566	-10.658	-7.327	1.00	79.19	B
ATOM	7795	OE1	GLU	B	464	-4.257	-11.843	-7.590	1.00	79.90	B
ATOM	7796	OE2	GLU	B	464	-3.718	-9.760	-7.120	1.00	80.78	B
ATOM	7797	C	GLU	B	464	-8.196	-8.473	-7.409	1.00	74.83	B

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ATOM   7798  O   GLU B 464      -8.683  -8.734  -6.312  1.00 74.50      B
ATOM   7799  N   ARG B 465      -7.719  -7.266  -7.700  1.00 75.19      B
ATOM   7800  CA  ARG B 465      -7.771  -6.221  -6.691  1.00 75.15      B
ATOM   7801  CB  ARG B 465      -7.101  -4.941  -7.184  1.00 76.83      B
ATOM   7802  CG  ARG B 465      -6.903  -3.919  -6.072  1.00 79.32      B
ATOM   7803  CD  ARG B 465      -6.000  -2.769  -6.503  1.00 80.92      B
ATOM   7804  NE  ARG B 465      -5.816  -1.792  -5.433  1.00 82.69      B
ATOM   7805  CZ  ARG B 465      -5.060  -0.702  -5.534  1.00 84.08      B
ATOM   7806  NH1 ARG B 465      -4.414  -0.450  -6.664  1.00 84.40      B
ATOM   7807  NH2 ARG B 465      -4.954   0.137  -4.507  1.00 84.57      B
ATOM   7808  C   ARG B 465      -9.219  -5.942  -6.302  1.00 74.69      B
ATOM   7809  O   ARG B 465      -9.513  -5.668  -5.133  1.00 75.31      B
ATOM   7810  N   LEU B 466     -10.122  -6.029  -7.279  1.00 73.00      B
ATOM   7811  CA  LEU B 466     -11.547  -5.802  -7.036  1.00 70.49      B
ATOM   7812  CB  LEU B 466     -12.297  -5.550  -8.350  1.00 70.13      B
ATOM   7813  CG  LEU B 466     -12.015  -4.275  -9.145  1.00 70.46      B
ATOM   7814  CD1 LEU B 466     -12.970  -4.181 -10.331  1.00 69.00      B
ATOM   7815  CD2 LEU B 466     -12.192  -3.071  -8.240  1.00 71.19      B
ATOM   7816  C   LEU B 466     -12.205  -6.985  -6.326  1.00 69.36      B
ATOM   7817  O   LEU B 466     -12.363  -6.980  -5.101  1.00 69.54      B
ATOM   7818  N   HIS B 467     -12.572  -7.994  -7.117  1.00 67.27      B
ATOM   7819  CA  HIS B 467     -13.246  -9.203  -6.638  1.00 64.65      B
ATOM   7820  CB  HIS B 467     -13.843  -9.935  -7.820  1.00 59.18      B
ATOM   7821  CG  HIS B 467     -14.649  -9.048  -8.705  1.00 54.08      B
ATOM   7822  CD2 HIS B 467     -14.329  -8.413  -9.856  1.00 51.76      B
ATOM   7823  ND1 HIS B 467     -15.942  -8.681  -8.407  1.00 50.90      B
ATOM   7824  CE1 HIS B 467     -16.386  -7.859  -9.340  1.00 50.98      B
ATOM   7825  NE2 HIS B 467     -15.426  -7.679 -10.229  1.00 51.31      B
ATOM   7826  C   HIS B 467     -12.318 -10.126  -5.883  1.00 66.20      B
ATOM   7827  O   HIS B 467     -12.751 -11.106  -5.269  1.00 65.92      B
ATOM   7828  N   GLY B 468     -11.032  -9.812  -5.958  1.00 67.95      B
ATOM   7829  CA  GLY B 468     -10.030 -10.581  -5.250  1.00 69.16      B
ATOM   7830  C   GLY B 468      -9.836 -12.046  -5.575  1.00 69.41      B
ATOM   7831  O   GLY B 468     -10.788 -12.821  -5.681  1.00 70.73      B
ATOM   7832  N   LEU B 469      -8.569 -12.398  -5.755  1.00 68.97      B
ATOM   7833  CA  LEU B 469      -8.116 -13.762  -6.007  1.00 68.37      B
ATOM   7834  CB  LEU B 469      -7.579 -14.317  -4.679  1.00 69.43      B
ATOM   7835  CG  LEU B 469      -7.661 -13.346  -3.477  1.00 69.74      B
ATOM   7836  CD1 LEU B 469      -7.420 -14.092  -2.154  1.00 69.22      B
ATOM   7837  CD2 LEU B 469      -6.636 -12.214  -3.656  1.00 69.02      B
ATOM   7838  C   LEU B 469      -9.119 -14.760  -6.615  1.00 67.41      B
ATOM   7839  O   LEU B 469      -9.114 -15.015  -7.825  1.00 65.99      B
ATOM   7840  N   SER B 470      -9.961 -15.319  -5.744  1.00 66.45      B
ATOM   7841  CA  SER B 470     -10.988 -16.316  -6.075  1.00 65.82      B
ATOM   7842  CB  SER B 470     -11.907 -16.521  -4.864  1.00 66.14      B
ATOM   7843  OG  SER B 470     -12.736 -15.388  -4.654  1.00 64.51      B
ATOM   7844  C   SER B 470     -11.877 -16.098  -7.304  1.00 65.13      B
ATOM   7845  O   SER B 470     -12.650 -16.980  -7.671  1.00 64.05      B
ATOM   7846  N   ALA B 471     -11.784 -14.937  -7.936  1.00 64.95      B
ATOM   7847  CA  ALA B 471     -12.611 -14.664  -9.107  1.00 64.29      B
ATOM   7848  CB  ALA B 471     -12.601 -13.167  -9.410  1.00 64.98      B
ATOM   7849  C   ALA B 471     -12.163 -15.459 -10.340  1.00 63.95      B
ATOM   7850  O   ALA B 471     -12.658 -15.239 -11.449  1.00 64.07      B
ATOM   7851  N   PHE B 472     -11.226 -16.381 -10.142  1.00 62.82      B
ATOM   7852  CA  PHE B 472     -10.716 -17.207 -11.235  1.00 62.09      B
ATOM   7853  CB  PHE B 472      -9.267 -16.845 -11.559  1.00 62.16      B
ATOM   7854  CG  PHE B 472      -9.038 -15.391 -11.831  1.00 62.18      B
ATOM   7855  CD1 PHE B 472      -9.653 -14.762 -12.906  1.00 62.70      B
ATOM   7856  CD2 PHE B 472      -8.154 -14.661 -11.044  1.00 62.65      B
ATOM   7857  CE1 PHE B 472      -9.387 -13.424 -13.200  1.00 61.93      B
ATOM   7858  CE2 PHE B 472      -7.882 -13.325 -11.328  1.00 62.39      B
ATOM   7859  CZ  PHE B 472      -8.499 -12.707 -12.409  1.00 62.14      B
ATOM   7860  C   PHE B 472     -10.751 -18.687 -10.859  1.00 61.28      B
ATOM   7861  O   PHE B 472     -10.478 -19.557 -11.686  1.00 60.97      B
ATOM   7862  N   THR B 473     -11.077 -18.972  -9.607  1.00 60.27      B
ATOM   7863  CA  THR B 473     -11.107 -20.350  -9.155  1.00 59.72      B
ATOM   7864  CB  THR B 473      -9.952 -20.615  -8.147  1.00 60.34      B
ATOM   7865  OG1 THR B 473     -10.282 -20.063  -6.865  1.00 59.58      B
ATOM   7866  CG2 THR B 473      -8.651 -19.968  -8.649  1.00 59.51      B
ATOM   7867  C   THR B 473     -12.443 -20.707  -8.516  1.00 59.19      B
ATOM   7868  O   THR B 473     -12.511 -21.547  -7.617  1.00 58.71      B
ATOM   7869  N   LEU B 474     -13.514 -20.069  -8.970  1.00 58.64      B
ATOM   7870  CA  LEU B 474     -14.814 -20.377  -8.405  1.00 58.64      B
ATOM   7871  CB  LEU B 474     -15.696 -19.125  -8.324  1.00 58.11      B
ATOM   7872  CG  LEU B 474     -15.222 -18.084  -7.298  1.00 58.99      B
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ATOM   7873  CD1 LEU B 474     -16.200 -16.915  -7.235  1.00 58.97      B
ATOM   7874  CD2 LEU B 474     -15.088 -18.737  -5.926  1.00 58.15      B
ATOM   7875  C   LEU B 474     -15.491 -21.462  -9.216  1.00 59.08      B
ATOM   7876  O   LEU B 474     -15.437 -21.473 -10.445  1.00 58.38      B
ATOM   7877  N   HIS B 475     -16.104 -22.392  -8.500  1.00 59.65      B
ATOM   7878  CA  HIS B 475     -16.812 -23.507  -9.105  1.00 60.96      B
ATOM   7879  CB  HIS B 475     -15.881 -24.705  -9.283  1.00 60.06      B
ATOM   7880  CG  HIS B 475     -15.434 -25.297  -7.986  1.00 60.11      B
ATOM   7881  CD2 HIS B 475     -15.838 -26.408  -7.327  1.00 60.01      B
ATOM   7882  ND1 HIS B 475     -14.532 -24.667  -7.156  1.00 60.62      B
ATOM   7883  CE1 HIS B 475     -14.401 -25.362  -6.041  1.00 61.48      B
ATOM   7884  NE2 HIS B 475     -15.184 -26.423  -6.118  1.00 61.76      B
ATOM   7885  C   HIS B 475     -17.887 -23.874  -8.091  1.00 62.46      B
ATOM   7886  O   HIS B 475     -17.963 -23.277  -7.009  1.00 62.89      B
ATOM   7887  N   SER B 476     -18.697 -24.871  -8.435  1.00 63.25      B
ATOM   7888  CA  SER B 476     -19.766 -25.334  -7.559  1.00 63.84      B
ATOM   7889  CB  SER B 476     -19.189 -25.790  -6.212  1.00 64.65      B
ATOM   7890  OG  SER B 476     -20.190 -26.373  -5.393  1.00 65.62      B
ATOM   7891  C   SER B 476     -20.780 -24.210  -7.351  1.00 63.62      B
ATOM   7892  O   SER B 476     -21.253 -23.962  -6.232  1.00 63.18      B
ATOM   7893  N   TYR B 477     -21.097 -23.521  -8.442  1.00 62.69      B
ATOM   7894  CA  TYR B 477     -22.058 -22.436  -8.381  1.00 62.18      B
ATOM   7895  CB  TYR B 477     -22.219 -21.776  -9.751  1.00 63.07      B
ATOM   7896  CG  TYR B 477     -21.066 -20.880 -10.153  1.00 63.76      B
ATOM   7897  CD1 TYR B 477     -19.916 -21.404 -10.745  1.00 63.32      B
ATOM   7898  CE1 TYR B 477     -18.853 -20.574 -11.111  1.00 63.11      B
ATOM   7899  CD2 TYR B 477     -21.127 -19.500  -9.933  1.00 64.21      B
ATOM   7900  CE2 TYR B 477     -20.074 -18.662 -10.290  1.00 63.96      B
ATOM   7901  CZ  TYR B 477     -18.943 -19.205 -10.880  1.00 63.97      B
ATOM   7902  OH  TYR B 477     -17.915 -18.373 -11.247  1.00 64.44      B
ATOM   7903  C   TYR B 477     -23.403 -22.973  -7.913  1.00 61.42      B
ATOM   7904  O   TYR B 477     -23.732 -24.133  -8.140  1.00 60.81      B
ATOM   7905  N   SER B 478     -24.175 -22.116  -7.254  1.00 61.02      B
ATOM   7906  CA  SER B 478     -25.492 -22.489  -6.756  1.00 58.86      B
ATOM   7907  CB  SER B 478     -26.192 -21.274  -6.163  1.00 58.05      B
ATOM   7908  OG  SER B 478     -27.565 -21.558  -5.955  1.00 57.45      B
ATOM   7909  C   SER B 478     -26.406 -23.081  -7.825  1.00 58.21      B
ATOM   7910  O   SER B 478     -26.325 -22.721  -9.001  1.00 57.33      B
ATOM   7911  N   PRO B 479     -27.295 -24.003  -7.425  1.00 57.33      B
ATOM   7912  CD  PRO B 479     -27.409 -24.685  -6.125  1.00 56.98      B
ATOM   7913  CA  PRO B 479     -28.204 -24.598  -8.405  1.00 56.72      B
ATOM   7914  CB  PRO B 479     -28.996 -25.603  -7.575  1.00 56.52      B
ATOM   7915  CG  PRO B 479     -28.009 -26.011  -6.525  1.00 56.67      B
ATOM   7916  C   PRO B 479     -29.083 -23.487  -8.963  1.00 55.96      B
ATOM   7917  O   PRO B 479     -29.059 -23.200 -10.160  1.00 55.56      B
ATOM   7918  N   GLY B 480     -29.842 -22.852  -8.074  1.00 55.09      B
ATOM   7919  CA  GLY B 480     -30.714 -21.769  -8.487  1.00 55.08      B
ATOM   7920  C   GLY B 480     -30.020 -20.815  -9.440  1.00 55.12      B
ATOM   7921  O   GLY B 480     -30.607 -20.392 -10.438  1.00 56.07      B
ATOM   7922  N   GLU B 481     -28.762 -20.496  -9.131  1.00 54.64      B
ATOM   7923  CA  GLU B 481     -27.939 -19.583  -9.926  1.00 53.53      B
ATOM   7924  CB  GLU B 481     -26.657 -19.234  -9.153  1.00 51.57      B
ATOM   7925  CG  GLU B 481     -25.731 -18.219  -9.844  1.00 49.77      B
ATOM   7926  CD  GLU B 481     -26.409 -16.890 -10.158  1.00 47.32      B
ATOM   7927  OE1 GLU B 481     -27.220 -16.419  -9.328  1.00 45.91      B
ATOM   7928  OE2 GLU B 481     -26.113 -16.311 -11.226  1.00 44.38      B
ATOM   7929  C   GLU B 481     -27.582 -20.166 -11.295  1.00 53.90      B
ATOM   7930  O   GLU B 481     -27.709 -19.486 -12.322  1.00 51.78      B
ATOM   7931  N   ILE B 482     -27.130 -21.423 -11.294  1.00 54.76      B
ATOM   7932  CA  ILE B 482     -26.763 -22.127 -12.524  1.00 54.19      B
ATOM   7933  CB  ILE B 482     -26.328 -23.584 -12.250  1.00 53.97      B
ATOM   7934  CG2 ILE B 482     -26.123 -24.313 -13.565  1.00 53.24      B
ATOM   7935  CG1 ILE B 482     -25.047 -23.615 -11.413  1.00 54.10      B
ATOM   7936  CD1 ILE B 482     -24.593 -25.019 -11.052  1.00 53.46      B
ATOM   7937  C   ILE B 482     -27.978 -22.178 -13.435  1.00 54.14      B
ATOM   7938  O   ILE B 482     -27.867 -22.034 -14.653  1.00 53.51      B
ATOM   7939  N   ASN B 483     -29.138 -22.387 -12.826  1.00 54.46      B
ATOM   7940  CA  ASN B 483     -30.381 -22.461 -13.568  1.00 55.76      B
ATOM   7941  CB  ASN B 483     -31.519 -22.893 -12.648  1.00 58.31      B
ATOM   7942  CG  ASN B 483     -31.319 -24.289 -12.108  1.00 60.48      B
ATOM   7943  OD1 ASN B 483     -30.986 -25.212 -12.862  1.00 60.53      B
ATOM   7944  ND2 ASN B 483     -31.522 -24.461 -10.796  1.00 61.82      B
ATOM   7945  C   ASN B 483     -30.723 -21.138 -14.220  1.00 55.29      B
ATOM   7946  O   ASN B 483     -30.885 -21.072 -15.438  1.00 56.09      B
ATOM   7947  N   ARG B 484     -30.825 -20.084 -13.418  1.00 53.93      B
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ATOM	7948	CA	ARG	B	484	-31.156	-18.778	-13.967	1.00	52.54	B
ATOM	7949	CB	ARG	B	484	-30.910	-17.680	-12.928	1.00	51.98	B
ATOM	7950	CG	ARG	B	484	-31.278	-16.286	-13.430	1.00	52.49	B
ATOM	7951	CD	ARG	B	484	-31.354	-15.263	-12.307	1.00	52.75	B
ATOM	7952	NE	ARG	B	484	-30.145	-15.239	-11.490	1.00	53.88	B
ATOM	7953	CZ	ARG	B	484	-29.898	-14.326	-10.555	1.00	55.13	B
ATOM	7954	NH1	ARG	B	484	-30.779	-13.360	-10.321	1.00	55.20	B
ATOM	7955	NH2	ARG	B	484	-28.773	-14.378	-9.853	1.00	55.85	B
ATOM	7956	C	ARG	B	484	-30.358	-18.499	-15.245	1.00	51.58	B
ATOM	7957	O	ARG	B	484	-30.898	-17.956	-16.213	1.00	51.70	B
ATOM	7958	N	VAL	B	485	-29.086	-18.895	-15.260	1.00	50.36	B
ATOM	7959	CA	VAL	B	485	-28.236	-18.674	-16.433	1.00	49.80	B
ATOM	7960	CB	VAL	B	485	-26.750	-19.055	-16.153	1.00	48.53	B
ATOM	7961	CG1	VAL	B	485	-25.874	-18.692	-17.356	1.00	45.56	B
ATOM	7962	CG2	VAL	B	485	-26.255	-18.343	-14.907	1.00	46.99	B
ATOM	7963	C	VAL	B	485	-28.733	-19.485	-17.628	1.00	50.27	B
ATOM	7964	O	VAL	B	485	-29.118	-18.918	-18.652	1.00	49.51	B
ATOM	7965	N	ALA	B	486	-28.726	-20.810	-17.490	1.00	51.48	B
ATOM	7966	CA	ALA	B	486	-29.174	-21.705	-18.560	1.00	51.98	B
ATOM	7967	CB	ALA	B	486	-29.265	-23.128	-18.044	1.00	50.32	B
ATOM	7968	C	ALA	B	486	-30.522	-21.259	-19.136	1.00	52.94	B
ATOM	7969	O	ALA	B	486	-30.680	-21.145	-20.358	1.00	53.11	B
ATOM	7970	N	SER	B	487	-31.489	-21.001	-18.261	1.00	53.10	B
ATOM	7971	CA	SER	B	487	-32.791	-20.549	-18.720	1.00	54.33	B
ATOM	7972	CB	SER	B	487	-33.674	-20.160	-17.536	1.00	54.70	B
ATOM	7973	OG	SER	B	487	-32.960	-20.267	-16.318	1.00	55.70	B
ATOM	7974	C	SER	B	487	-32.587	-19.342	-19.625	1.00	56.00	B
ATOM	7975	O	SER	B	487	-33.024	-19.344	-20.775	1.00	56.68	B
ATOM	7976	N	CYS	B	488	-31.905	-18.324	-19.102	1.00	56.95	B
ATOM	7977	CA	CYS	B	488	-31.642	-17.100	-19.852	1.00	57.23	B
ATOM	7978	CB	CYS	B	488	-30.743	-16.161	-19.040	1.00	57.99	B
ATOM	7979	SG	CYS	B	488	-30.476	-14.509	-19.788	1.00	60.12	B
ATOM	7980	C	CYS	B	488	-30.992	-17.400	-21.197	1.00	57.24	B
ATOM	7981	O	CYS	B	488	-31.393	-16.841	-22.219	1.00	57.03	B
ATOM	7982	N	LEU	B	489	-29.986	-18.273	-21.195	1.00	57.47	B
ATOM	7983	CA	LEU	B	489	-29.303	-18.640	-22.432	1.00	57.35	B
ATOM	7984	CB	LEU	B	489	-28.198	-19.665	-22.167	1.00	56.47	B
ATOM	7985	CG	LEU	B	489	-26.901	-19.075	-21.609	1.00	56.40	B
ATOM	7986	CD1	LEU	B	489	-25.885	-20.174	-21.367	1.00	56.21	B
ATOM	7987	CD2	LEU	B	489	-26.352	-18.052	-22.595	1.00	56.49	B
ATOM	7988	C	LEU	B	489	-30.329	-19.210	-23.395	1.00	58.04	B
ATOM	7989	O	LEU	B	489	-30.271	-18.962	-24.603	1.00	57.53	B
ATOM	7990	N	ARG	B	490	-31.274	-19.970	-22.852	1.00	58.58	B
ATOM	7991	CA	ARG	B	490	-32.334	-20.543	-23.662	1.00	59.05	B
ATOM	7992	CB	ARG	B	490	-33.122	-21.577	-22.860	1.00	59.79	B
ATOM	7993	CG	ARG	B	490	-32.546	-22.976	-22.948	1.00	59.87	B
ATOM	7994	CD	ARG	B	490	-33.501	-23.991	-22.330	1.00	60.22	B
ATOM	7995	NE	ARG	B	490	-33.392	-24.080	-20.874	1.00	58.66	B
ATOM	7996	CZ	ARG	B	490	-32.303	-24.502	-20.232	1.00	57.37	B
ATOM	7997	NH1	ARG	B	490	-31.221	-24.865	-20.914	1.00	55.70	B
ATOM	7998	NH2	ARG	B	490	-32.307	-24.593	-18.911	1.00	56.48	B
ATOM	7999	C	ARG	B	490	-33.270	-19.442	-24.160	1.00	59.14	B
ATOM	8000	O	ARG	B	490	-33.455	-19.286	-25.368	1.00	59.56	B
ATOM	8001	N	LYS	B	491	-33.847	-18.676	-23.234	1.00	58.71	B
ATOM	8002	CA	LYS	B	491	-34.754	-17.594	-23.605	1.00	58.52	B
ATOM	8003	CB	LYS	B	491	-35.103	-16.713	-22.400	1.00	59.15	B
ATOM	8004	CG	LYS	B	491	-35.819	-15.404	-22.796	1.00	59.76	B
ATOM	8005	CD	LYS	B	491	-36.303	-14.581	-21.592	1.00	59.46	B
ATOM	8006	CE	LYS	B	491	-35.149	-14.027	-20.760	1.00	58.88	B
ATOM	8007	NZ	LYS	B	491	-35.638	-13.226	-19.600	1.00	57.41	B
ATOM	8008	C	LYS	B	491	-34.156	-16.716	-24.688	1.00	58.45	B
ATOM	8009	O	LYS	B	491	-34.812	-16.411	-25.682	1.00	58.19	B
ATOM	8010	N	LEU	B	492	-32.910	-16.301	-24.492	1.00	58.71	B
ATOM	8011	CA	LEU	B	492	-32.251	-15.448	-25.468	1.00	59.49	B
ATOM	8012	CB	LEU	B	492	-30.992	-14.812	-24.861	1.00	58.41	B
ATOM	8013	CG	LEU	B	492	-31.097	-13.328	-24.483	1.00	56.75	B
ATOM	8014	CD1	LEU	B	492	-32.348	-13.074	-23.656	1.00	57.22	B
ATOM	8015	CD2	LEU	B	492	-29.864	-12.921	-23.706	1.00	55.72	B
ATOM	8016	C	LEU	B	492	-31.898	-16.224	-26.731	1.00	60.41	B
ATOM	8017	O	LEU	B	492	-31.841	-15.656	-27.823	1.00	61.14	B
ATOM	8018	N	GLY	B	493	-31.679	-17.526	-26.582	1.00	60.81	B
ATOM	8019	CA	GLY	B	493	-31.325	-18.344	-27.730	1.00	61.41	B
ATOM	8020	C	GLY	B	493	-29.827	-18.340	-27.971	1.00	61.35	B
ATOM	8021	O	GLY	B	493	-29.362	-18.087	-29.080	1.00	61.68	B
ATOM	8022	N	VAL	B	494	-29.073	-18.627	-26.917	1.00	60.36	B

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ATOM   8023  CA  VAL B 494     -27.618 -18.654 -26.976  1.00 59.49      B
ATOM   8024  CB  VAL B 494     -27.017 -17.670 -25.938  1.00 59.21      B
ATOM   8025  CG1 VAL B 494     -25.491 -17.704 -25.978  1.00 57.90      B
ATOM   8026  CG2 VAL B 494     -27.547 -16.272 -26.199  1.00 58.15      B
ATOM   8027  C   VAL B 494     -27.108 -20.056 -26.667  1.00 59.53      B
ATOM   8028  O   VAL B 494     -27.719 -20.793 -25.895  1.00 58.97      B
ATOM   8029  N   PRO B 495     -25.989 -20.454 -27.287  1.00 59.73      B
ATOM   8030  CD  PRO B 495     -25.260 -19.794 -28.386  1.00 60.00      B
ATOM   8031  CA  PRO B 495     -25.446 -21.789 -27.020  1.00 60.72      B
ATOM   8032  CB  PRO B 495     -24.100 -21.756 -27.737  1.00 60.13      B
ATOM   8033  CG  PRO B 495     -24.418 -20.930 -28.952  1.00 60.25      B
ATOM   8034  C   PRO B 495     -25.314 -22.026 -25.508  1.00 61.69      B
ATOM   8035  O   PRO B 495     -24.930 -21.121 -24.760  1.00 61.74      B
ATOM   8036  N   PRO B 496     -25.642 -23.245 -25.043  1.00 62.10      B
ATOM   8037  CD  PRO B 496     -25.959 -24.437 -25.847  1.00 61.71      B
ATOM   8038  CA  PRO B 496     -25.560 -23.589 -23.620  1.00 62.31      B
ATOM   8039  CB  PRO B 496     -26.112 -25.009 -23.574  1.00 62.46      B
ATOM   8040  CG  PRO B 496     -25.653 -25.564 -24.881  1.00 62.92      B
ATOM   8041  C   PRO B 496     -24.133 -23.507 -23.108  1.00 62.31      B
ATOM   8042  O   PRO B 496     -23.179 -23.553 -23.887  1.00 62.60      B
ATOM   8043  N   LEU B 497     -23.998 -23.385 -21.793  1.00 62.33      B
ATOM   8044  CA  LEU B 497     -22.690 -23.271 -21.160  1.00 62.18      B
ATOM   8045  CB  LEU B 497     -22.799 -23.617 -19.669  1.00 60.19      B
ATOM   8046  CG  LEU B 497     -23.659 -22.653 -18.839  1.00 58.93      B
ATOM   8047  CD1 LEU B 497     -23.593 -23.024 -17.362  1.00 56.95      B
ATOM   8048  CD2 LEU B 497     -23.161 -21.230 -19.037  1.00 58.12      B
ATOM   8049  C   LEU B 497     -21.639 -24.149 -21.827  1.00 63.20      B
ATOM   8050  O   LEU B 497     -20.499 -23.725 -22.032  1.00 62.06      B
ATOM   8051  N   ARG B 498     -22.041 -25.367 -22.177  1.00 65.17      B
ATOM   8052  CA  ARG B 498     -21.148 -26.326 -22.814  1.00 66.71      B
ATOM   8053  CB  ARG B 498     -21.917 -27.596 -23.162  1.00 69.19      B
ATOM   8054  CG  ARG B 498     -22.570 -28.250 -21.958  1.00 72.91      B
ATOM   8055  CD  ARG B 498     -21.526 -28.686 -20.936  1.00 75.95      B
ATOM   8056  NE  ARG B 498     -22.103 -29.522 -19.887  1.00 77.45      B
ATOM   8057  CZ  ARG B 498     -21.391 -30.260 -19.043  1.00 78.58      B
ATOM   8058  NH1 ARG B 498     -20.062 -30.270 -19.120  1.00 79.84      B
ATOM   8059  NH2 ARG B 498     -22.009 -30.999 -18.128  1.00 78.74      B
ATOM   8060  C   ARG B 498     -20.497 -25.765 -24.069  1.00 66.42      B
ATOM   8061  O   ARG B 498     -19.275 -25.680 -24.157  1.00 67.11      B
ATOM   8062  N   THR B 499     -21.312 -25.380 -25.040  1.00 65.91      B
ATOM   8063  CA  THR B 499     -20.782 -24.835 -26.276  1.00 66.07      B
ATOM   8064  CB  THR B 499     -21.922 -24.383 -27.215  1.00 67.34      B
ATOM   8065  OG1 THR B 499     -22.680 -25.533 -27.616  1.00 68.02      B
ATOM   8066  CG2 THR B 499     -21.357 -23.698 -28.467  1.00 68.08      B
ATOM   8067  C   THR B 499     -19.825 -23.679 -26.000  1.00 65.70      B
ATOM   8068  O   THR B 499     -18.922 -23.410 -26.797  1.00 66.01      B
ATOM   8069  N   TRP B 500     -20.015 -22.995 -24.874  1.00 65.06      B
ATOM   8070  CA  TRP B 500     -19.121 -21.897 -24.511  1.00 64.75      B
ATOM   8071  CB  TRP B 500     -19.771 -20.953 -23.490  1.00 61.72      B
ATOM   8072  CG  TRP B 500     -20.800 -20.053 -24.085  1.00 58.55      B
ATOM   8073  CD2 TRP B 500     -20.573 -19.017 -25.044  1.00 56.88      B
ATOM   8074  CE2 TRP B 500     -21.834 -18.465 -25.370  1.00 56.47      B
ATOM   8075  CE3 TRP B 500     -19.426 -18.502 -25.665  1.00 56.23      B
ATOM   8076  CD1 TRP B 500     -22.150 -20.085 -23.866  1.00 57.62      B
ATOM   8077  NE1 TRP B 500     -22.779 -19.134 -24.636  1.00 56.28      B
ATOM   8078  CZ2 TRP B 500     -21.982 -17.420 -26.292  1.00 56.36      B
ATOM   8079  CZ3 TRP B 500     -19.573 -17.460 -26.585  1.00 56.74      B
ATOM   8080  CH2 TRP B 500     -20.846 -16.932 -26.888  1.00 55.82      B
ATOM   8081  C   TRP B 500     -17.853 -22.503 -23.916  1.00 66.62      B
ATOM   8082  O   TRP B 500     -16.750 -21.999 -24.135  1.00 67.38      B
ATOM   8083  N   ARG B 501     -18.022 -23.589 -23.163  1.00 67.71      B
ATOM   8084  CA  ARG B 501     -16.895 -24.284 -22.547  1.00 68.98      B
ATOM   8085  CB  ARG B 501     -17.392 -25.486 -21.735  1.00 69.07      B
ATOM   8086  CG  ARG B 501     -16.288 -26.294 -21.087  1.00 68.65      B
ATOM   8087  CD  ARG B 501     -16.833 -27.412 -20.208  1.00 69.86      B
ATOM   8088  NE  ARG B 501     -15.742 -28.228 -19.674  1.00 71.52      B
ATOM   8089  CZ  ARG B 501     -14.803 -27.783 -18.841  1.00 72.06      B
ATOM   8090  NH1 ARG B 501     -14.815 -26.521 -18.432  1.00 72.77      B
ATOM   8091  NH2 ARG B 501     -13.840 -28.596 -18.424  1.00 71.86      B
ATOM   8092  C   ARG B 501     -15.947 -24.755 -23.648  1.00 70.27      B
ATOM   8093  O   ARG B 501     -14.730 -24.826 -23.461  1.00 70.44      B
ATOM   8094  N   HIS B 502     -16.512 -25.071 -24.806  1.00 71.71      B
ATOM   8095  CA  HIS B 502     -15.699 -25.517 -25.925  1.00 73.75      B
ATOM   8096  CB  HIS B 502     -16.576 -26.107 -27.036  1.00 75.28      B
ATOM   8097  CG  HIS B 502     -15.827 -26.988 -27.988  1.00 76.78      B
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ATOM   8098  CD2 HIS B 502     -15.123 -26.695 -29.109  1.00 77.01      B
ATOM   8099  ND1 HIS B 502     -15.699 -28.348 -27.798  1.00 77.42      B
ATOM   8100  CE1 HIS B 502     -14.949 -28.856 -28.761  1.00 77.99      B
ATOM   8101  NE2 HIS B 502     -14.586 -27.874 -29.568  1.00 78.05      B
ATOM   8102  C   HIS B 502     -14.935 -24.314 -26.470  1.00 74.30      B
ATOM   8103  O   HIS B 502     -13.704 -24.318 -26.540  1.00 73.94      B
ATOM   8104  N   ARG B 503     -15.681 -23.282 -26.849  1.00 74.81      B
ATOM   8105  CA  ARG B 503     -15.092 -22.068 -27.396  1.00 75.92      B
ATOM   8106  CB  ARG B 503     -16.193 -21.062 -27.736  1.00 75.87      B
ATOM   8107  CG  ARG B 503     -17.197 -21.597 -28.747  1.00 76.55      B
ATOM   8108  CD  ARG B 503     -18.219 -20.551 -29.164  1.00 76.56      B
ATOM   8109  NE  ARG B 503     -19.254 -21.130 -30.016  1.00 76.45      B
ATOM   8110  CZ  ARG B 503     -20.330 -20.478 -30.445  1.00 77.30      B
ATOM   8111  NH1 ARG B 503     -20.528 -19.207 -30.107  1.00 76.96      B
ATOM   8112  NH2 ARG B 503     -21.216 -21.101 -31.212  1.00 77.67      B
ATOM   8113  C   ARG B 503     -14.099 -21.444 -26.426  1.00 76.59      B
ATOM   8114  O   ARG B 503     -13.080 -20.880 -26.837  1.00 75.80      B
ATOM   8115  N   ALA B 504     -14.402 -21.557 -25.135  1.00 77.96      B
ATOM   8116  CA  ALA B 504     -13.548 -21.008 -24.087  1.00 79.04      B
ATOM   8117  CB  ALA B 504     -14.170 -21.256 -22.726  1.00 78.41      B
ATOM   8118  C   ALA B 504     -12.147 -21.605 -24.136  1.00 80.09      B
ATOM   8119  O   ALA B 504     -11.185 -20.991 -23.672  1.00 80.59      B
ATOM   8120  N   ARG B 505     -12.035 -22.803 -24.703  1.00 80.90      B
ATOM   8121  CA  ARG B 505     -10.746 -23.469 -24.814  1.00 80.62      B
ATOM   8122  CB  ARG B 505     -10.947 -24.979 -24.970  1.00 80.81      B
ATOM   8123  CG  ARG B 505     -11.874 -25.582 -23.912  1.00 81.50      B
ATOM   8124  CD  ARG B 505     -11.590 -27.069 -23.677  1.00 82.40      B
ATOM   8125  NE  ARG B 505     -10.216 -27.297 -23.216  1.00 82.81      B
ATOM   8126  CZ  ARG B 505      -9.770 -28.441 -22.701  1.00 82.74      B
ATOM   8127  NH1 ARG B 505     -10.587 -29.479 -22.572  1.00 83.25      B
ATOM   8128  NH2 ARG B 505      -8.504 -28.550 -22.312  1.00 82.33      B
ATOM   8129  C   ARG B 505      -9.944 -22.900 -25.989  1.00 80.86      B
ATOM   8130  O   ARG B 505      -8.754 -22.628 -25.850  1.00 80.64      B
ATOM   8131  N   SER B 506     -10.604 -22.711 -27.132  1.00 81.73      B
ATOM   8132  CA  SER B 506      -9.966 -22.153 -28.328  1.00 82.50      B
ATOM   8133  CB  SER B 506     -10.956 -22.108 -29.502  1.00 82.50      B
ATOM   8134  OG  SER B 506     -10.602 -21.101 -30.447  1.00 80.81      B
ATOM   8135  C   SER B 506      -9.460 -20.739 -28.061  1.00 83.68      B
ATOM   8136  O   SER B 506      -8.373 -20.360 -28.504  1.00 83.87      B
ATOM   8137  N   VAL B 507     -10.266 -19.955 -27.352  1.00 84.69      B
ATOM   8138  CA  VAL B 507      -9.895 -18.586 -27.024  1.00 85.35      B
ATOM   8139  CB  VAL B 507     -10.957 -17.907 -26.116  1.00 85.86      B
ATOM   8140  CG1 VAL B 507     -10.549 -16.458 -25.822  1.00 86.23      B
ATOM   8141  CG2 VAL B 507     -12.327 -17.954 -26.793  1.00 85.83      B
ATOM   8142  C   VAL B 507      -8.556 -18.624 -26.298  1.00 84.95      B
ATOM   8143  O   VAL B 507      -7.569 -18.045 -26.760  1.00 85.25      B
ATOM   8144  N   ARG B 508      -8.533 -19.325 -25.170  1.00 84.53      B
ATOM   8145  CA  ARG B 508      -7.326 -19.466 -24.367  1.00 84.90      B
ATOM   8146  CB  ARG B 508      -7.489 -20.625 -23.381  1.00 84.51      B
ATOM   8147  CG  ARG B 508      -6.289 -20.849 -22.477  1.00 84.40      B
ATOM   8148  CD  ARG B 508      -6.395 -22.199 -21.801  1.00 84.93      B
ATOM   8149  NE  ARG B 508      -6.130 -22.124 -20.368  1.00 85.10      B
ATOM   8150  CZ  ARG B 508      -6.327 -23.132 -19.525  1.00 85.39      B
ATOM   8151  NH1 ARG B 508      -6.789 -24.287 -19.983  1.00 84.44      B
ATOM   8152  NH2 ARG B 508      -6.075 -22.980 -18.227  1.00 86.34      B
ATOM   8153  C   ARG B 508      -6.106 -19.729 -25.251  1.00 85.26      B
ATOM   8154  O   ARG B 508      -5.188 -18.904 -25.330  1.00 85.54      B
ATOM   8155  N   ALA B 509      -6.116 -20.885 -25.913  1.00 84.74      B
ATOM   8156  CA  ALA B 509      -5.030 -21.302 -26.790  1.00 83.86      B
ATOM   8157  CB  ALA B 509      -5.470 -22.500 -27.615  1.00 83.57      B
ATOM   8158  C   ALA B 509      -4.553 -20.179 -27.706  1.00 83.69      B
ATOM   8159  O   ALA B 509      -3.398 -19.757 -27.627  1.00 83.40      B
ATOM   8160  N   LYS B 510      -5.444 -19.694 -28.566  1.00 83.73      B
ATOM   8161  CA  LYS B 510      -5.108 -18.619 -29.496  1.00 84.36      B
ATOM   8162  CB  LYS B 510      -6.372 -18.098 -30.187  1.00 83.14      B
ATOM   8163  CG  LYS B 510      -7.092 -19.144 -31.021  1.00 81.26      B
ATOM   8164  CD  LYS B 510      -8.043 -18.506 -32.021  1.00 79.65      B
ATOM   8165  CE  LYS B 510      -8.724 -19.559 -32.884  1.00 78.22      B
ATOM   8166  NZ  LYS B 510      -9.466 -18.959 -34.031  1.00 76.74      B
ATOM   8167  C   LYS B 510      -4.383 -17.458 -28.809  1.00 85.94      B
ATOM   8168  O   LYS B 510      -3.453 -16.871 -29.375  1.00 86.20      B
ATOM   8169  N   LEU B 511      -4.809 -17.145 -27.586  1.00 87.27      B
ATOM   8170  CA  LEU B 511      -4.221 -16.060 -26.800  1.00 88.20      B
ATOM   8171  CB  LEU B 511      -5.222 -15.564 -25.755  1.00 87.87      B
ATOM   8172  CG  LEU B 511      -6.346 -14.637 -26.218  1.00 88.26      B
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ATOM	8173	CD1	LEU	B	511	-7.255	-14.362	-25.022	1.00	88.09	B
ATOM	8174	CD2	LEU	B	511	-5.772	-13.329	-26.781	1.00	87.68	B
ATOM	8175	C	LEU	B	511	-2.917	-16.438	-26.098	1.00	89.05	B
ATOM	8176	O	LEU	B	511	-2.012	-15.609	-25.961	1.00	89.25	B
ATOM	8177	N	LEU	B	512	-2.830	-17.687	-25.645	1.00	89.71	B
ATOM	8178	CA	LEU	B	512	-1.639	-18.174	-24.964	1.00	89.67	B
ATOM	8179	CB	LEU	B	512	-1.877	-19.589	-24.431	1.00	88.12	B
ATOM	8180	CG	LEU	B	512	-1.373	-19.798	-23.005	1.00	86.90	B
ATOM	8181	CD1	LEU	B	512	-2.024	-18.779	-22.074	1.00	86.47	B
ATOM	8182	CD2	LEU	B	512	-1.684	-21.210	-22.564	1.00	85.84	B
ATOM	8183	C	LEU	B	512	-0.469	-18.163	-25.948	1.00	90.79	B
ATOM	8184	O	LEU	B	512	0.688	-18.036	-25.546	1.00	90.71	B
ATOM	8185	N	SER	B	513	-0.792	-18.290	-27.238	1.00	91.95	B
ATOM	8186	CA	SER	B	513	0.198	-18.270	-28.317	1.00	92.92	B
ATOM	8187	CB	SER	B	513	-0.491	-18.499	-29.672	1.00	92.90	B
ATOM	8188	OG	SER	B	513	-1.600	-19.382	-29.565	1.00	93.37	B
ATOM	8189	C	SER	B	513	0.835	-16.875	-28.292	1.00	94.09	B
ATOM	8190	O	SER	B	513	1.986	-16.681	-28.694	1.00	93.91	B
ATOM	8191	N	GLN	B	514	0.055	-15.911	-27.804	1.00	95.50	B
ATOM	8192	CA	GLN	B	514	0.488	-14.524	-27.687	1.00	95.98	B
ATOM	8193	CB	GLN	B	514	-0.723	-13.589	-27.587	1.00	96.02	B
ATOM	8194	CG	GLN	B	514	-0.396	-12.115	-27.747	1.00	95.77	B
ATOM	8195	CD	GLN	B	514	-0.911	-11.542	-29.063	1.00	95.50	B
ATOM	8196	OE1	GLN	B	514	-1.499	-12.256	-29.880	1.00	94.97	B
ATOM	8197	NE2	GLN	B	514	-0.693	-10.245	-29.269	1.00	95.06	B
ATOM	8198	C	GLN	B	514	1.357	-14.400	-26.445	1.00	96.50	B
ATOM	8199	O	GLN	B	514	1.063	-14.962	-25.388	1.00	95.97	B
ATOM	8200	N	GLY	B	515	2.434	-13.646	-26.594	1.00	97.50	B
ATOM	8201	CA	GLY	B	515	3.361	-13.474	-25.500	1.00	98.39	B
ATOM	8202	C	GLY	B	515	3.068	-12.287	-24.621	1.00	98.87	B
ATOM	8203	O	GLY	B	515	2.838	-11.177	-25.096	1.00	99.23	B
ATOM	8204	N	GLY	B	516	3.069	-12.518	-23.319	1.00	98.98	B
ATOM	8205	CA	GLY	B	516	2.831	-11.418	-22.418	1.00	98.92	B
ATOM	8206	C	GLY	B	516	1.405	-11.315	-21.939	1.00	98.80	B
ATOM	8207	O	GLY	B	516	0.867	-12.271	-21.378	1.00	98.84	B
ATOM	8208	N	ARG	B	517	0.807	-10.144	-22.169	1.00	98.49	B
ATOM	8209	CA	ARG	B	517	-0.563	-9.825	-21.752	1.00	97.94	B
ATOM	8210	CB	ARG	B	517	-1.071	-8.554	-22.464	1.00	98.39	B
ATOM	8211	CG	ARG	B	517	-0.008	-7.502	-22.765	1.00	98.55	B
ATOM	8212	CD	ARG	B	517	0.882	-7.933	-23.931	1.00	98.25	B
ATOM	8213	NE	ARG	B	517	2.291	-7.932	-23.554	1.00	97.92	B
ATOM	8214	CZ	ARG	B	517	2.958	-6.847	-23.175	1.00	98.16	B
ATOM	8215	NH1	ARG	B	517	2.342	-5.672	-23.124	1.00	97.97	B
ATOM	8216	NH2	ARG	B	517	4.242	-6.939	-22.854	1.00	98.37	B
ATOM	8217	C	ARG	B	517	-1.559	-10.958	-21.998	1.00	97.33	B
ATOM	8218	O	ARG	B	517	-2.063	-11.576	-21.053	1.00	96.34	B
ATOM	8219	N	ALA	B	518	-1.850	-11.206	-23.273	1.00	97.02	B
ATOM	8220	CA	ALA	B	518	-2.788	-12.252	-23.666	1.00	96.70	B
ATOM	8221	CB	ALA	B	518	-2.640	-12.563	-25.154	1.00	96.44	B
ATOM	8222	C	ALA	B	518	-2.560	-13.513	-22.842	1.00	96.29	B
ATOM	8223	O	ALA	B	518	-3.469	-13.991	-22.160	1.00	96.39	B
ATOM	8224	N	ALA	B	519	-1.338	-14.040	-22.904	1.00	96.05	B
ATOM	8225	CA	ALA	B	519	-0.969	-15.246	-22.162	1.00	95.95	B
ATOM	8226	CB	ALA	B	519	0.563	-15.351	-22.039	1.00	95.69	B
ATOM	8227	C	ALA	B	519	-1.606	-15.190	-20.779	1.00	95.48	B
ATOM	8228	O	ALA	B	519	-2.203	-16.163	-20.312	1.00	95.11	B
ATOM	8229	N	THR	B	520	-1.487	-14.025	-20.146	1.00	95.48	B
ATOM	8230	CA	THR	B	520	-2.040	-13.789	-18.814	1.00	95.49	B
ATOM	8231	CB	THR	B	520	-1.659	-12.386	-18.288	1.00	95.89	B
ATOM	8232	OG1	THR	B	520	-0.319	-12.072	-18.690	1.00	96.10	B
ATOM	8233	CG2	THR	B	520	-1.747	-12.348	-16.751	1.00	95.97	B
ATOM	8234	C	THR	B	520	-3.566	-13.897	-18.846	1.00	95.07	B
ATOM	8235	O	THR	B	520	-4.161	-14.671	-18.089	1.00	94.91	B
ATOM	8236	N	CYS	B	521	-4.193	-13.108	-19.717	1.00	93.90	B
ATOM	8237	CA	CYS	B	521	-5.644	-13.135	-19.855	1.00	92.35	B
ATOM	8238	CB	CYS	B	521	-6.082	-12.366	-21.119	1.00	91.99	B
ATOM	8239	SG	CYS	B	521	-5.911	-10.541	-21.051	1.00	90.89	B
ATOM	8240	C	CYS	B	521	-6.093	-14.596	-19.938	1.00	92.03	B
ATOM	8241	O	CYS	B	521	-6.820	-15.085	-19.074	1.00	92.13	B
ATOM	8242	N	GLY	B	522	-5.631	-15.291	-20.973	1.00	91.57	B
ATOM	8243	CA	GLY	B	522	-5.982	-16.687	-21.164	1.00	91.25	B
ATOM	8244	C	GLY	B	522	-5.773	-17.573	-19.946	1.00	91.07	B
ATOM	8245	O	GLY	B	522	-6.646	-18.368	-19.590	1.00	91.64	B
ATOM	8246	N	ARG	B	523	-4.616	-17.439	-19.303	1.00	90.45	B
ATOM	8247	CA	ARG	B	523	-4.280	-18.241	-18.124	1.00	89.80	B

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ATOM   8248  CB  ARG B 523      -2.872 -17.888 -17.628  1.00 90.91      B
ATOM   8249  CG  ARG B 523      -2.486 -18.593 -16.338  1.00 91.87      B
ATOM   8250  CD  ARG B 523      -1.198 -18.023 -15.753  1.00 92.43      B
ATOM   8251  NE  ARG B 523      -0.859 -18.621 -14.462  1.00 92.96      B
ATOM   8252  CZ  ARG B 523       0.073 -18.147 -13.637  1.00 93.37      B
ATOM   8253  NH1 ARG B 523       0.763 -17.064 -13.967  1.00 93.56      B
ATOM   8254  NH2 ARG B 523       0.313 -18.749 -12.477  1.00 93.43      B
ATOM   8255  C   ARG B 523      -5.265 -18.106 -16.959  1.00 88.74      B
ATOM   8256  O   ARG B 523      -5.867 -19.096 -16.534  1.00 87.87      B
ATOM   8257  N   TYR B 524      -5.417 -16.880 -16.452  1.00 87.68      B
ATOM   8258  CA  TYR B 524      -6.304 -16.590 -15.321  1.00 86.39      B
ATOM   8259  CB  TYR B 524      -5.951 -15.229 -14.696  1.00 87.00      B
ATOM   8260  CG  TYR B 524      -4.675 -15.244 -13.889  1.00 88.62      B
ATOM   8261  CD1 TYR B 524      -3.426 -15.256 -14.514  1.00 88.97      B
ATOM   8262  CE1 TYR B 524      -2.250 -15.323 -13.768  1.00 89.27      B
ATOM   8263  CD2 TYR B 524      -4.717 -15.294 -12.495  1.00 89.23      B
ATOM   8264  CE2 TYR B 524      -3.551 -15.362 -11.742  1.00 89.61      B
ATOM   8265  CZ  TYR B 524      -2.319 -15.379 -12.381  1.00 89.48      B
ATOM   8266  OH  TYR B 524      -1.163 -15.471 -11.635  1.00 89.62      B
ATOM   8267  C   TYR B 524      -7.797 -16.607 -15.632  1.00 84.89      B
ATOM   8268  O   TYR B 524      -8.577 -17.287 -14.953  1.00 84.89      B
ATOM   8269  N   LEU B 525      -8.194 -15.853 -16.650  1.00 82.70      B
ATOM   8270  CA  LEU B 525      -9.598 -15.766 -17.031  1.00 80.88      B
ATOM   8271  CB  LEU B 525      -9.770 -14.810 -18.211  1.00 79.90      B
ATOM   8272  CG  LEU B 525      -9.273 -13.379 -18.033  1.00 79.56      B
ATOM   8273  CD1 LEU B 525      -9.649 -12.579 -19.269  1.00 79.57      B
ATOM   8274  CD2 LEU B 525      -9.889 -12.753 -16.786  1.00 80.27      B
ATOM   8275  C   LEU B 525     -10.222 -17.105 -17.399  1.00 80.39      B
ATOM   8276  O   LEU B 525     -11.326 -17.425 -16.952  1.00 80.15      B
ATOM   8277  N   PHE B 526      -9.504 -17.889 -18.200  1.00 79.14      B
ATOM   8278  CA  PHE B 526     -10.013 -19.172 -18.670  1.00 77.69      B
ATOM   8279  CB  PHE B 526      -9.888 -19.205 -20.189  1.00 75.14      B
ATOM   8280  CG  PHE B 526     -10.407 -17.958 -20.860  1.00 73.19      B
ATOM   8281  CD1 PHE B 526     -11.738 -17.578 -20.721  1.00 71.88      B
ATOM   8282  CD2 PHE B 526      -9.566 -17.164 -21.634  1.00 71.86      B
ATOM   8283  CE1 PHE B 526     -12.223 -16.429 -21.343  1.00 70.78      B
ATOM   8284  CE2 PHE B 526     -10.045 -16.011 -22.260  1.00 70.31      B
ATOM   8285  CZ  PHE B 526     -11.374 -15.644 -22.115  1.00 70.02      B
ATOM   8286  C   PHE B 526      -9.365 -20.409 -18.055  1.00 78.36      B
ATOM   8287  O   PHE B 526      -9.079 -21.386 -18.744  1.00 78.60      B
ATOM   8288  N   ASN B 527      -9.156 -20.366 -16.746  1.00 79.30      B
ATOM   8289  CA  ASN B 527      -8.554 -21.480 -16.026  1.00 80.29      B
ATOM   8290  CB  ASN B 527      -7.730 -20.943 -14.850  1.00 79.83      B
ATOM   8291  CG  ASN B 527      -7.069 -22.042 -14.041  1.00 79.24      B
ATOM   8292  OD1 ASN B 527      -6.264 -22.825 -14.563  1.00 78.09      B
ATOM   8293  ND2 ASN B 527      -7.407 -22.106 -12.750  1.00 78.48      B
ATOM   8294  C   ASN B 527      -9.663 -22.414 -15.530  1.00 81.29      B
ATOM   8295  O   ASN B 527      -9.429 -23.323 -14.731  1.00 81.47      B
ATOM   8296  N   TRP B 528     -10.875 -22.182 -16.021  1.00 82.58      B
ATOM   8297  CA  TRP B 528     -12.031 -22.994 -15.641  1.00 83.86      B
ATOM   8298  CB  TRP B 528     -13.218 -22.096 -15.281  1.00 83.49      B
ATOM   8299  CG  TRP B 528     -13.576 -21.118 -16.374  1.00 83.05      B
ATOM   8300  CD2 TRP B 528     -14.427 -21.361 -17.503  1.00 82.62      B
ATOM   8301  CE2 TRP B 528     -14.459 -20.170 -18.267  1.00 82.28      B
ATOM   8302  CE3 TRP B 528     -15.165 -22.469 -17.946  1.00 82.03      B
ATOM   8303  CD1 TRP B 528     -13.138 -19.828 -16.497  1.00 82.73      B
ATOM   8304  NE1 TRP B 528     -13.665 -19.252 -17.631  1.00 81.88      B
ATOM   8305  CZ2 TRP B 528     -15.201 -20.056 -19.447  1.00 81.90      B
ATOM   8306  CZ3 TRP B 528     -15.903 -22.354 -19.122  1.00 81.78      B
ATOM   8307  CH2 TRP B 528     -15.915 -21.154 -19.858  1.00 81.66      B
ATOM   8308  C   TRP B 528     -12.449 -23.929 -16.776  1.00 84.63      B
ATOM   8309  O   TRP B 528     -13.127 -24.938 -16.551  1.00 84.38      B
ATOM   8310  N   ALA B 529     -12.038 -23.583 -17.995  1.00 85.60      B
ATOM   8311  CA  ALA B 529     -12.372 -24.372 -19.179  1.00 87.13      B
ATOM   8312  CB  ALA B 529     -12.275 -23.499 -20.435  1.00 86.82      B
ATOM   8313  C   ALA B 529     -11.502 -25.617 -19.348  1.00 87.98      B
ATOM   8314  O   ALA B 529     -11.416 -26.168 -20.446  1.00 87.83      B
ATOM   8315  N   VAL B 530     -10.867 -26.057 -18.262  1.00 89.33      B
ATOM   8316  CA  VAL B 530     -10.005 -27.238 -18.298  1.00 90.37      B
ATOM   8317  CB  VAL B 530      -8.577 -26.887 -18.787  1.00 89.51      B
ATOM   8318  CG1 VAL B 530      -8.626 -26.342 -20.199  1.00 89.36      B
ATOM   8319  CG2 VAL B 530      -7.933 -25.884 -17.839  1.00 88.82      B
ATOM   8320  C   VAL B 530      -9.840 -27.975 -16.963  1.00 91.75      B
ATOM   8321  O   VAL B 530      -9.836 -27.363 -15.890  1.00 91.60      B
ATOM   8322  N   ARG B 531      -9.715 -29.299 -17.050  1.00 93.34      B
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ATOM	8323	CA	ARG	B	531	-9.482	-30.145	-15.885	1.00	94.20	B
ATOM	8324	CB	ARG	B	531	-10.145	-31.514	-16.065	1.00	94.81	B
ATOM	8325	CG	ARG	B	531	-11.663	-31.441	-16.130	1.00	96.79	B
ATOM	8326	CD	ARG	B	531	-12.303	-32.821	-16.263	1.00	98.50	B
ATOM	8327	NE	ARG	B	531	-13.751	-32.726	-16.458	1.00	100.24	B
ATOM	8328	CZ	ARG	B	531	-14.564	-33.769	-16.623	1.00	101.18	B
ATOM	8329	NH1	ARG	B	531	-14.080	-35.006	-16.614	1.00	101.18	B
ATOM	8330	NH2	ARG	B	531	-15.866	-33.575	-16.810	1.00	101.96	B
ATOM	8331	C	ARG	B	531	-7.965	-30.278	-15.896	1.00	94.23	B
ATOM	8332	O	ARG	B	531	-7.403	-31.340	-15.633	1.00	94.04	B
ATOM	8333	N	THR	B	532	-7.326	-29.162	-16.241	1.00	94.66	B
ATOM	8334	CA	THR	B	532	-5.874	-29.045	-16.340	1.00	94.90	B
ATOM	8335	CB	THR	B	532	-5.465	-28.322	-17.666	1.00	94.13	B
ATOM	8336	OG1	THR	B	532	-5.839	-29.128	-18.794	1.00	93.57	B
ATOM	8337	CG2	THR	B	532	-3.962	-28.063	-17.702	1.00	93.46	B
ATOM	8338	C	THR	B	532	-5.334	-28.249	-15.152	1.00	95.09	B
ATOM	8339	O	THR	B	532	-4.598	-28.783	-14.319	1.00	95.50	B
ATOM	8340	N	LYS	B	533	-5.715	-26.975	-15.092	1.00	94.88	B
ATOM	8341	CA	LYS	B	533	-5.306	-26.054	-14.030	1.00	93.94	B
ATOM	8342	CB	LYS	B	533	-5.226	-26.780	-12.677	1.00	92.53	B
ATOM	8343	CG	LYS	B	533	-6.516	-27.458	-12.243	1.00	91.29	B
ATOM	8344	CD	LYS	B	533	-6.335	-28.182	-10.918	1.00	90.13	B
ATOM	8345	CE	LYS	B	533	-7.637	-28.801	-10.411	1.00	88.90	B
ATOM	8346	NZ	LYS	B	533	-7.453	-29.510	-9.101	1.00	86.66	B
ATOM	8347	C	LYS	B	533	-3.970	-25.351	-14.304	1.00	93.73	B
ATOM	8348	O	LYS	B	533	-3.342	-25.542	-15.349	1.00	92.81	B
ATOM	8349	N	LEU	B	534	-3.563	-24.531	-13.340	1.00	93.80	B
ATOM	8350	CA	LEU	B	534	-2.317	-23.772	-13.386	1.00	94.20	B
ATOM	8351	CB	LEU	B	534	-2.216	-22.954	-14.678	1.00	93.30	B
ATOM	8352	CG	LEU	B	534	-0.938	-22.114	-14.817	1.00	93.20	B
ATOM	8353	CD1	LEU	B	534	0.308	-23.008	-14.724	1.00	92.26	B
ATOM	8354	CD2	LEU	B	534	-0.964	-21.374	-16.144	1.00	92.87	B
ATOM	8355	C	LEU	B	534	-2.269	-22.835	-12.180	1.00	94.51	B
ATOM	8356	O	LEU	B	534	-2.792	-21.720	-12.230	1.00	94.58	B
ATOM	8357	N	LYS	B	535	-1.646	-23.309	-11.101	1.00	94.86	B
ATOM	8358	CA	LYS	B	535	-1.506	-22.560	-9.848	1.00	94.79	B
ATOM	8359	CB	LYS	B	535	-0.332	-23.120	-9.030	1.00	94.66	B
ATOM	8360	CG	LYS	B	535	-0.523	-24.571	-8.591	1.00	94.27	B
ATOM	8361	CD	LYS	B	535	0.641	-25.084	-7.758	1.00	93.40	B
ATOM	8362	CE	LYS	B	535	0.432	-26.539	-7.376	1.00	92.66	B
ATOM	8363	NZ	LYS	B	535	1.558	-27.085	-6.567	1.00	92.00	B
ATOM	8364	C	LYS	B	535	-1.344	-21.047	-10.036	1.00	94.73	B
ATOM	8365	O	LYS	B	535	-0.236	-20.532	-10.219	1.00	94.43	B
ATOM	8366	N	LEU	B	536	-2.476	-20.349	-9.974	1.00	94.29	B
ATOM	8367	CA	LEU	B	536	-2.524	-18.901	-10.131	1.00	93.62	B
ATOM	8368	CB	LEU	B	536	-3.979	-18.427	-10.245	1.00	93.90	B
ATOM	8369	CG	LEU	B	536	-5.051	-19.379	-10.792	1.00	93.95	B
ATOM	8370	CD1	LEU	B	536	-5.305	-20.513	-9.791	1.00	94.35	B
ATOM	8371	CD2	LEU	B	536	-6.340	-18.600	-11.023	1.00	93.57	B
ATOM	8372	C	LEU	B	536	-1.878	-18.255	-8.913	1.00	93.36	B
ATOM	8373	O	LEU	B	536	-2.278	-18.525	-7.782	1.00	93.08	B
ATOM	8374	N	THR	B	537	-0.881	-17.405	-9.149	1.00	92.90	B
ATOM	8375	CA	THR	B	537	-0.175	-16.719	-8.069	1.00	92.13	B
ATOM	8376	CB	THR	B	537	1.344	-17.020	-8.118	1.00	92.08	B
ATOM	8377	OG1	THR	B	537	1.909	-16.471	-9.316	1.00	91.76	B
ATOM	8378	CG2	THR	B	537	1.584	-18.529	-8.097	1.00	91.85	B
ATOM	8379	C	THR	B	537	-0.393	-15.206	-8.161	1.00	92.10	B
ATOM	8380	O	THR	B	537	-0.061	-14.583	-9.172	1.00	91.91	B
ATOM	8381	N	PRO	B	538	-0.953	-14.598	-7.099	1.00	91.80	B
ATOM	8382	CD	PRO	B	538	-1.140	-15.222	-5.775	1.00	91.43	B
ATOM	8383	CA	PRO	B	538	-1.232	-13.157	-7.033	1.00	91.50	B
ATOM	8384	CB	PRO	B	538	-1.163	-12.871	-5.540	1.00	91.36	B
ATOM	8385	CG	PRO	B	538	-1.782	-14.100	-4.965	1.00	91.09	B
ATOM	8386	C	PRO	B	538	-0.272	-12.291	-7.852	1.00	91.79	B
ATOM	8387	O	PRO	B	538	0.748	-11.818	-7.356	1.00	91.78	B
ATOM	8388	N	ILE	B	539	-0.627	-12.098	-9.116	1.00	92.21	B
ATOM	8389	CA	ILE	B	539	0.154	-11.315	-10.070	1.00	92.85	B
ATOM	8390	CB	ILE	B	539	-0.613	-11.227	-11.410	1.00	92.35	B
ATOM	8391	CG2	ILE	B	539	-0.012	-12.200	-12.412	1.00	92.28	B
ATOM	8392	CG1	ILE	B	539	-2.102	-11.515	-11.172	1.00	91.65	B
ATOM	8393	CD1	ILE	B	539	-2.913	-11.743	-12.436	1.00	91.82	B
ATOM	8394	C	ILE	B	539	0.561	-9.902	-9.615	1.00	94.12	B
ATOM	8395	O	ILE	B	539	0.132	-9.430	-8.558	1.00	94.24	B
ATOM	8396	N	PRO	B	540	1.413	-9.216	-10.410	1.00	95.43	B
ATOM	8397	CD	PRO	B	540	2.145	-9.739	-11.580	1.00	95.56	B

ATOM	8398	CA	PRO	B	540	1.880	-7.858	-10.089	1.00	95.65	B
ATOM	8399	CB	PRO	B	540	2.776	-7.514	-11.279	1.00	95.39	B
ATOM	8400	CG	PRO	B	540	3.366	-8.838	-11.623	1.00	95.06	B
ATOM	8401	C	PRO	B	540	0.748	-6.849	-9.900	1.00	95.96	B
ATOM	8402	O	PRO	B	540	0.202	-6.729	-8.803	1.00	95.57	B
ATOM	8403	N	ALA	B	541	0.405	-6.136	-10.973	1.00	96.80	B
ATOM	8404	CA	ALA	B	541	-0.662	-5.133	-10.948	1.00	97.53	B
ATOM	8405	CB	ALA	B	541	-1.210	-4.914	-12.365	1.00	97.21	B
ATOM	8406	C	ALA	B	541	-1.788	-5.533	-9.986	1.00	98.10	B
ATOM	8407	O	ALA	B	541	-2.712	-6.272	-10.340	1.00	97.78	B
ATOM	8408	N	ALA	B	542	-1.675	-5.026	-8.762	1.00	98.65	B
ATOM	8409	CA	ALA	B	542	-2.606	-5.288	-7.664	1.00	99.00	B
ATOM	8410	CB	ALA	B	542	-2.564	-6.768	-7.282	1.00	98.50	B
ATOM	8411	C	ALA	B	542	-2.053	-4.422	-6.534	1.00	99.32	B
ATOM	8412	O	ALA	B	542	-2.739	-3.549	-5.999	1.00	100.12	B
ATOM	8413	N	SER	B	543	-0.787	-4.663	-6.201	1.00	99.14	B
ATOM	8414	CA	SER	B	543	-0.077	-3.893	-5.181	1.00	98.80	B
ATOM	8415	CB	SER	B	543	1.053	-4.729	-4.566	1.00	98.65	B
ATOM	8416	OG	SER	B	543	0.602	-6.029	-4.224	1.00	98.64	B
ATOM	8417	C	SER	B	543	0.529	-2.712	-5.948	1.00	98.57	B
ATOM	8418	O	SER	B	543	1.411	-1.999	-5.449	1.00	98.33	B
ATOM	8419	N	GLN	B	544	0.039	-2.523	-7.173	1.00	97.79	B
ATOM	8420	CA	GLN	B	544	0.524	-1.468	-8.058	1.00	97.23	B
ATOM	8421	CB	GLN	B	544	1.648	-2.012	-8.942	1.00	97.15	B
ATOM	8422	CG	GLN	B	544	2.730	-2.783	-8.205	1.00	96.56	B
ATOM	8423	CD	GLN	B	544	3.689	-3.455	-9.156	1.00	96.06	B
ATOM	8424	OE1	GLN	B	544	3.277	-4.225	-10.024	1.00	96.25	B
ATOM	8425	NE2	GLN	B	544	4.978	-3.172	-8.999	1.00	95.86	B
ATOM	8426	C	GLN	B	544	-0.556	-0.878	-8.970	1.00	96.81	B
ATOM	8427	O	GLN	B	544	-0.270	0.016	-9.773	1.00	96.80	B
ATOM	8428	N	LEU	B	545	-1.787	-1.371	-8.856	1.00	95.73	B
ATOM	8429	CA	LEU	B	545	-2.870	-0.870	-9.699	1.00	94.51	B
ATOM	8430	CB	LEU	B	545	-4.128	-1.739	-9.544	1.00	93.92	B
ATOM	8431	CG	LEU	B	545	-4.123	-3.050	-10.345	1.00	93.73	B
ATOM	8432	CD1	LEU	B	545	-5.342	-3.896	-9.979	1.00	92.94	B
ATOM	8433	CD2	LEU	B	545	-4.119	-2.732	-11.845	1.00	93.12	B
ATOM	8434	C	LEU	B	545	-3.217	0.598	-9.466	1.00	94.11	B
ATOM	8435	O	LEU	B	545	-3.390	1.052	-8.335	1.00	93.76	B
ATOM	8436	N	ASP	B	546	-3.309	1.333	-10.567	1.00	93.66	B
ATOM	8437	CA	ASP	B	546	-3.635	2.755	-10.544	1.00	93.29	B
ATOM	8438	CB	ASP	B	546	-3.284	3.371	-11.899	1.00	92.39	B
ATOM	8439	CG	ASP	B	546	-3.559	2.418	-13.053	1.00	92.34	B
ATOM	8440	OD1	ASP	B	546	-4.732	2.014	-13.225	1.00	91.99	B
ATOM	8441	OD2	ASP	B	546	-2.604	2.061	-13.781	1.00	92.64	B
ATOM	8442	C	ASP	B	546	-5.118	2.972	-10.228	1.00	93.19	B
ATOM	8443	O	ASP	B	546	-5.795	3.777	-10.873	1.00	92.88	B
ATOM	8444	N	LEU	B	547	-5.611	2.244	-9.227	1.00	92.88	B
ATOM	8445	CA	LEU	B	547	-7.010	2.323	-8.804	1.00	92.31	B
ATOM	8446	CB	LEU	B	547	-7.327	1.199	-7.811	1.00	91.51	B
ATOM	8447	CG	LEU	B	547	-8.483	0.281	-8.213	1.00	91.07	B
ATOM	8448	CD1	LEU	B	547	-8.232	-0.253	-9.624	1.00	91.49	B
ATOM	8449	CD2	LEU	B	547	-8.615	-0.862	-7.215	1.00	90.68	B
ATOM	8450	C	LEU	B	547	-7.370	3.670	-8.178	1.00	92.13	B
ATOM	8451	O	LEU	B	547	-7.711	3.746	-6.993	1.00	92.33	B
ATOM	8452	N	SER	B	548	-7.294	4.722	-8.992	1.00	91.48	B
ATOM	8453	CA	SER	B	548	-7.596	6.096	-8.574	1.00	90.53	B
ATOM	8454	CB	SER	B	548	-7.724	7.003	-9.813	1.00	90.16	B
ATOM	8455	OG	SER	B	548	-8.724	6.525	-10.704	1.00	89.28	B
ATOM	8456	C	SER	B	548	-8.861	6.221	-7.707	1.00	89.84	B
ATOM	8457	O	SER	B	548	-8.901	5.764	-6.558	1.00	89.81	B
ATOM	8458	N	GLY	B	549	-9.885	6.864	-8.260	1.00	88.50	B
ATOM	8459	CA	GLY	B	549	-11.132	7.037	-7.537	1.00	86.79	B
ATOM	8460	C	GLY	B	549	-12.241	6.208	-8.153	1.00	85.59	B
ATOM	8461	O	GLY	B	549	-13.234	6.749	-8.655	1.00	85.81	B
ATOM	8462	N	TRP	B	550	-12.072	4.888	-8.118	1.00	83.54	B
ATOM	8463	CA	TRP	B	550	-13.068	3.989	-8.688	1.00	81.50	B
ATOM	8464	CB	TRP	B	550	-12.496	2.585	-8.893	1.00	83.10	B
ATOM	8465	CG	TRP	B	550	-11.407	2.496	-9.905	1.00	84.51	B
ATOM	8466	CD2	TRP	B	550	-11.522	2.008	-11.243	1.00	85.05	B
ATOM	8467	CE2	TRP	B	550	-10.236	2.076	-11.822	1.00	85.62	B
ATOM	8468	CE3	TRP	B	550	-12.587	1.518	-12.010	1.00	85.56	B
ATOM	8469	CD1	TRP	B	550	-10.099	2.836	-9.731	1.00	85.17	B
ATOM	8470	NE1	TRP	B	550	-9.387	2.585	-10.877	1.00	85.93	B
ATOM	8471	CZ2	TRP	B	550	-9.983	1.672	-13.135	1.00	86.64	B
ATOM	8472	CZ3	TRP	B	550	-12.335	1.114	-13.319	1.00	86.52	B

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ATOM   8473  CH2 TRP B 550     -11.040   1.195 -13.867  1.00 86.81      B
ATOM   8474  C   TRP B 550     -14.287   3.877  -7.799  1.00 79.06      B
ATOM   8475  O   TRP B 550     -15.430   4.010  -8.257  1.00 78.64      B
ATOM   8476  N   PHE B 551     -14.037   3.631  -6.521  1.00 75.36      B
ATOM   8477  CA  PHE B 551     -15.127   3.465  -5.587  1.00 72.43      B
ATOM   8478  CB  PHE B 551     -15.104   2.034  -5.073  1.00 71.51      B
ATOM   8479  CG  PHE B 551     -15.204   1.029  -6.180  1.00 70.21      B
ATOM   8480  CD1 PHE B 551     -16.417   0.792  -6.812  1.00 69.89      B
ATOM   8481  CD2 PHE B 551     -14.065   0.412  -6.676  1.00 70.27      B
ATOM   8482  CE1 PHE B 551     -16.493  -0.040  -7.929  1.00 69.54      B
ATOM   8483  CE2 PHE B 551     -14.130  -0.420  -7.791  1.00 69.98      B
ATOM   8484  CZ  PHE B 551     -15.346  -0.644  -8.419  1.00 69.30      B
ATOM   8485  C   PHE B 551     -15.104   4.495  -4.483  1.00 70.65      B
ATOM   8486  O   PHE B 551     -14.835   4.210  -3.313  1.00 70.47      B
ATOM   8487  N   VAL B 552     -15.409   5.713  -4.913  1.00 68.31      B
ATOM   8488  CA  VAL B 552     -15.458   6.886  -4.060  1.00 66.24      B
ATOM   8489  CB  VAL B 552     -14.528   7.981  -4.611  1.00 66.11      B
ATOM   8490  CG1 VAL B 552     -14.667   9.262  -3.795  1.00 65.46      B
ATOM   8491  CG2 VAL B 552     -13.100   7.475  -4.605  1.00 66.76      B
ATOM   8492  C   VAL B 552     -16.878   7.437  -3.980  1.00 64.27      B
ATOM   8493  O   VAL B 552     -17.439   7.571  -2.889  1.00 63.37      B
ATOM   8494  N   ALA B 553     -17.459   7.743  -5.137  1.00 61.84      B
ATOM   8495  CA  ALA B 553     -18.801   8.302  -5.181  1.00 60.06      B
ATOM   8496  CB  ALA B 553     -18.734   9.784  -4.850  1.00 59.96      B
ATOM   8497  C   ALA B 553     -19.508   8.102  -6.524  1.00 59.20      B
ATOM   8498  O   ALA B 553     -18.870   8.079  -7.581  1.00 58.67      B
ATOM   8499  N   GLY B 554     -20.832   7.969  -6.470  1.00 57.32      B
ATOM   8500  CA  GLY B 554     -21.610   7.789  -7.682  1.00 55.92      B
ATOM   8501  C   GLY B 554     -21.774   9.103  -8.419  1.00 55.32      B
ATOM   8502  O   GLY B 554     -21.833  10.162  -7.795  1.00 56.25      B
ATOM   8503  N   TYR B 555     -21.842   9.041  -9.744  1.00 54.09      B
ATOM   8504  CA  TYR B 555     -21.995  10.240 -10.565  1.00 52.91      B
ATOM   8505  CB  TYR B 555     -20.645  10.659 -11.155  1.00 52.19      B
ATOM   8506  CG  TYR B 555     -19.588  10.942 -10.115  1.00 52.52      B
ATOM   8507  CD1 TYR B 555     -19.686  12.056  -9.275  1.00 51.51      B
ATOM   8508  CE1 TYR B 555     -18.725  12.302  -8.292  1.00 51.35      B
ATOM   8509  CD2 TYR B 555     -18.501  10.080  -9.949  1.00 51.60      B
ATOM   8510  CE2 TYR B 555     -17.538  10.314  -8.971  1.00 51.64      B
ATOM   8511  CZ  TYR B 555     -17.654  11.426  -8.145  1.00 51.53      B
ATOM   8512  OH  TYR B 555     -16.703  11.652  -7.174  1.00 49.78      B
ATOM   8513  C   TYR B 555     -22.968   9.971 -11.701  1.00 52.49      B
ATOM   8514  O   TYR B 555     -22.874  10.585 -12.767  1.00 51.73      B
ATOM   8515  N   SER B 556     -23.903   9.054 -11.475  1.00 52.23      B
ATOM   8516  CA  SER B 556     -24.866   8.706 -12.512  1.00 52.19      B
ATOM   8517  CB  SER B 556     -25.866   7.666 -11.992  1.00 52.55      B
ATOM   8518  OG  SER B 556     -26.594   7.093 -13.069  1.00 50.11      B
ATOM   8519  C   SER B 556     -25.602   9.947 -12.990  1.00 51.51      B
ATOM   8520  O   SER B 556     -26.379  10.534 -12.241  1.00 50.33      B
ATOM   8521  N   GLY B 557     -25.345  10.339 -14.238  1.00 51.42      B
ATOM   8522  CA  GLY B 557     -25.986  11.516 -14.804  1.00 51.55      B
ATOM   8523  C   GLY B 557     -25.270  12.809 -14.447  1.00 52.06      B
ATOM   8524  O   GLY B 557     -25.729  13.908 -14.765  1.00 51.65      B
ATOM   8525  N   GLY B 558     -24.128  12.674 -13.787  1.00 52.55      B
ATOM   8526  CA  GLY B 558     -23.367  13.838 -13.385  1.00 53.96      B
ATOM   8527  C   GLY B 558     -22.411  14.387 -14.428  1.00 55.08      B
ATOM   8528  O   GLY B 558     -21.687  15.338 -14.146  1.00 56.32      B
ATOM   8529  N   ASP B 559     -22.384  13.800 -15.621  1.00 55.28      B
ATOM   8530  CA  ASP B 559     -21.493  14.296 -16.666  1.00 55.18      B
ATOM   8531  CB  ASP B 559     -21.920  15.731 -17.037  1.00 54.15      B
ATOM   8532  CG  ASP B 559     -21.181  16.285 -18.245  1.00 54.33      B
ATOM   8533  OD1 ASP B 559     -21.128  15.596 -19.287  1.00 54.53      B
ATOM   8534  OD2 ASP B 559     -20.666  17.422 -18.158  1.00 54.95      B
ATOM   8535  C   ASP B 559     -20.038  14.259 -16.170  1.00 55.99      B
ATOM   8536  O   ASP B 559     -19.261  15.187 -16.416  1.00 57.34      B
ATOM   8537  N   ILE B 560     -19.675  13.184 -15.471  1.00 56.04      B
ATOM   8538  CA  ILE B 560     -18.322  13.024 -14.936  1.00 56.21      B
ATOM   8539  CB  ILE B 560     -18.357  12.534 -13.461  1.00 55.22      B
ATOM   8540  CG2 ILE B 560     -16.944  12.281 -12.942  1.00 54.41      B
ATOM   8541  CG1 ILE B 560     -19.048  13.581 -12.584  1.00 52.99      B
ATOM   8542  CD1 ILE B 560     -18.335  14.906 -12.519  1.00 52.03      B
ATOM   8543  C   ILE B 560     -17.473  12.066 -15.776  1.00 57.61      B
ATOM   8544  O   ILE B 560     -17.961  11.067 -16.297  1.00 55.46      B
ATOM   8545  N   TYR B 561     -16.188  12.392 -15.883  1.00 61.19      B
ATOM   8546  CA  TYR B 561     -15.231  11.623 -16.669  1.00 64.69      B
ATOM   8547  CB  TYR B 561     -14.996  12.321 -18.018  1.00 66.59      B
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ATOM   8548  CG  TYR B 561     -14.026  11.616 -18.950  1.00 69.59      B
ATOM   8549  CD1 TYR B 561     -14.445  10.545 -19.747  1.00 70.33      B
ATOM   8550  CE1 TYR B 561     -13.554   9.882 -20.599  1.00 71.19      B
ATOM   8551  CD2 TYR B 561     -12.686  12.010 -19.028  1.00 70.57      B
ATOM   8552  CE2 TYR B 561     -11.785  11.355 -19.873  1.00 71.96      B
ATOM   8553  CZ  TYR B 561     -12.224  10.292 -20.656  1.00 72.68      B
ATOM   8554  OH  TYR B 561     -11.335   9.643 -21.489  1.00 74.04      B
ATOM   8555  C   TYR B 561     -13.895  11.501 -15.946  1.00 66.57      B
ATOM   8556  O   TYR B 561     -12.951  12.221 -16.266  1.00 67.40      B
ATOM   8557  N   HIS B 562     -13.802  10.603 -14.973  1.00 68.65      B
ATOM   8558  CA  HIS B 562     -12.540  10.434 -14.263  1.00 71.28      B
ATOM   8559  CB  HIS B 562     -12.732   9.555 -13.029  1.00 71.94      B
ATOM   8560  CG  HIS B 562     -13.398  10.257 -11.885  1.00 72.11      B
ATOM   8561  CD2 HIS B 562     -13.869  11.521 -11.768  1.00 72.16      B
ATOM   8562  ND1 HIS B 562     -13.625   9.650 -10.669  1.00 72.31      B
ATOM   8563  CE1 HIS B 562     -14.205  10.510  -9.851  1.00 72.54      B
ATOM   8564  NE2 HIS B 562     -14.365  11.652 -10.493  1.00 71.74      B
ATOM   8565  C   HIS B 562     -11.505   9.812 -15.195  1.00 72.97      B
ATOM   8566  O   HIS B 562     -11.797   8.840 -15.888  1.00 73.36      B
ATOM   8567  N   SER B 563     -10.299  10.378 -15.214  1.00 75.53      B
ATOM   8568  CA  SER B 563      -9.219   9.879 -16.077  1.00 77.13      B
ATOM   8569  CB  SER B 563      -8.992  10.851 -17.250  1.00 77.92      B
ATOM   8570  OG  SER B 563      -8.684  12.163 -16.796  1.00 77.68      B
ATOM   8571  C   SER B 563      -7.887   9.640 -15.345  1.00 77.50      B
ATOM   8572  O   SER B 563      -7.469   8.462 -15.238  1.00 77.02      B
ATOM   8573  OXT SER B 563      -7.277  10.633 -14.889  1.00 78.15      B
ATOM   8574  OH2 WAT S   1     -23.181  47.630  46.595  1.00 20.28      S
ATOM   8575  OH2 WAT S   2     -28.571  24.452   6.488  1.00 15.98      S
ATOM   8576  OH2 WAT S   3     -21.765  47.737   4.285  1.00 12.26      S
ATOM   8577  OH2 WAT S   4     -11.569  40.014  17.279  1.00 11.52      S
ATOM   8578  OH2 WAT S   5     -17.080  27.282   8.155  1.00 11.95      S
ATOM   8579  OH2 WAT S   6     -16.315  39.382  39.899  1.00 19.75      S
ATOM   8580  OH2 WAT S   7     -18.774  50.916  14.438  1.00 15.60      S
ATOM   8581  OH2 WAT S   8       0.039  36.208  33.137  1.00 13.00      S
ATOM   8582  OH2 WAT S   9     -15.956  34.423  13.420  1.00 13.63      S
ATOM   8583  OH2 WAT S  10     -29.158  33.182  21.795  1.00 24.58      S
ATOM   8584  OH2 WAT S  11     -29.373  21.245 -22.071  1.00 20.23      S
ATOM   8585  OH2 WAT S  12      -8.120  21.767  19.466  1.00 27.41      S
ATOM   8586  OH2 WAT S  13     -36.352   2.696  -5.764  1.00 20.34      S
ATOM   8587  OH2 WAT S  14     -23.068  24.070  28.133  1.00 17.55      S
ATOM   8588  OH2 WAT S  15      -7.189  40.438  33.462  1.00 25.61      S
ATOM   8589  OH2 WAT S  16     -19.666  50.553   6.107  1.00 29.57      S
ATOM   8590  OH2 WAT S  17     -16.839  45.340  45.411  1.00 14.96      S
ATOM   8591  OH2 WAT S  18     -38.630  17.636   2.535  1.00 21.59      S
ATOM   8592  OH2 WAT S  19      -7.960 -19.506  -5.261  1.00 33.84      S
ATOM   8593  OH2 WAT S  20     -32.154  21.928   7.467  1.00 16.73      S
ATOM   8594  OH2 WAT S  21     -35.188  48.503  51.369  1.00 34.30      S
ATOM   8595  OH2 WAT S  22     -22.401  36.677 -17.576  1.00 17.86      S
ATOM   8596  OH2 WAT S  23      -0.706  38.464  31.006  1.00 23.32      S
ATOM   8597  OH2 WAT S  24     -25.799  38.047  21.261  1.00 18.14      S
ATOM   8598  OH2 WAT S  25     -31.206  38.232  -8.482  1.00 19.65      S
ATOM   8599  OH2 WAT S  26     -12.343  27.066  -2.345  1.00 15.27      S
ATOM   8600  OH2 WAT S  27     -36.608  15.103 -14.539  1.00 22.68      S
ATOM   8601  OH2 WAT S  28     -15.558  33.274  -3.512  1.00 32.27      S
ATOM   8602  OH2 WAT S  29     -17.173  53.773  32.141  1.00 29.41      S
ATOM   8603  OH2 WAT S  30     -13.421  33.841  14.081  1.00 35.29      S
ATOM   8604  OH2 WAT S  31     -35.930  48.773  12.325  1.00 36.34      S
ATOM   8605  OH2 WAT S  32      -9.728  38.169   6.801  1.00 22.49      S
ATOM   8606  OH2 WAT S  33     -28.800  46.965  -6.203  1.00 26.20      S
ATOM   8607  OH2 WAT S  34       1.517  36.551  18.860  1.00 19.44      S
ATOM   8608  OH2 WAT S  35     -20.921  31.168  51.051  1.00 23.94      S
ATOM   8609  OH2 WAT S  36     -26.605  40.177  17.721  1.00 27.12      S
ATOM   8610  OH2 WAT S  37     -21.061  44.053  49.377  1.00 34.09      S
ATOM   8611  OH2 WAT S  38     -28.012  38.439  19.424  1.00 13.89      S
ATOM   8612  OH2 WAT S  39     -26.159  70.842  38.084  1.00 27.31      S
ATOM   8613  OH2 WAT S  40      -8.339  39.307  35.519  1.00 21.93      S
ATOM   8614  OH2 WAT S  41       2.758  34.243  17.544  1.00 31.48      S
ATOM   8615  OH2 WAT S  42     -16.136  43.836  47.588  1.00 21.33      S
ATOM   8616  OH2 WAT S  43     -13.474  57.076  42.910  1.00 34.44      S
ATOM   8617  OH2 WAT S  44     -34.094  15.488   0.945  1.00 45.62      S
ATOM   8618  OH2 WAT S  45     -34.141  24.261 -14.573  1.00 28.00      S
ATOM   8619  OH2 WAT S  46     -22.950  39.657  10.872  1.00 38.20      S
ATOM   8620  OH2 WAT S  47     -27.578   2.651   8.308  1.00 31.95      S
ATOM   8621  OH2 WAT S  48     -29.484  49.589  19.131  1.00 24.24      S
ATOM   8622  OH2 WAT S  49     -24.213  53.870  33.359  1.00 13.24      S
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ATOM   8623  OH2 WAT S  50     -43.916  13.178 -26.102  1.00 24.36      S
ATOM   8624  OH2 WAT S  51     -18.949  50.257  44.232  1.00 20.76      S
ATOM   8625  OH2 WAT S  52     -40.220  -2.679  -2.036  1.00 18.45      S
ATOM   8626  OH2 WAT S  53     -26.654  39.434  -7.744  1.00 30.58      S
ATOM   8627  OH2 WAT S  54     -21.562  26.379   6.469  1.00 32.75      S
ATOM   8628  OH2 WAT S  55     -38.475  32.011   1.390  1.00 19.27      S
ATOM   8629  OH2 WAT S  56     -15.884  53.042  18.458  1.00 21.38      S
ATOM   8630  OH2 WAT S  57     -29.418 -16.631  -7.896  1.00 28.45      S
ATOM   8631  OH2 WAT S  58     -17.833  45.197   1.213  1.00 23.26      S
ATOM   8632  OH2 WAT S  59     -31.262  29.275 -18.994  1.00 18.69      S
ATOM   8633  OH2 WAT S  60     -48.050  21.667  -9.625  1.00 30.30      S
ATOM   8634  OH2 WAT S  61     -23.394  36.323  -2.436  1.00 17.79      S
ATOM   8635  OH2 WAT S  62     -20.115  43.912  10.837  1.00 25.17      S
ATOM   8636  OH2 WAT S  63     -36.251  10.430  16.106  1.00 35.09      S
ATOM   8637  OH2 WAT S  64     -22.620   1.003 -12.915  1.00 25.86      S
ATOM   8638  OH2 WAT S  65     -19.981  63.538  50.509  1.00 31.39      S
ATOM   8639  C1  BI  I   1     -24.197 -17.114 -30.702  1.00 80.00      I
ATOM   8640  C2  BI  I   1     -25.564 -16.682 -30.639  1.00 81.40      I
ATOM   8641  C3  BI  I   1     -25.931 -15.556 -29.826  1.00 82.30      I
ATOM   8642  C4  BI  I   1     -24.930 -14.866 -29.086  1.00 82.23      I
ATOM   8643  C5  BI  I   1     -23.560 -15.302 -29.152  1.00 81.73      I
ATOM   8644  C6  BI  I   1     -23.199 -16.418 -29.956  1.00 81.31      I
ATOM   8645  N7  BI  I   1     -27.165 -14.933 -29.589  1.00 82.50      I
ATOM   8646  C8  BI  I   1     -26.968 -13.853 -28.698  1.00 81.63      I
ATOM   8647  C9  BI  I   1     -25.591 -13.785 -28.372  1.00 81.70      I
ATOM   8648  C10 BI  I   1     -24.918 -12.752 -27.431  1.00 80.87      I
ATOM   8649  C11 BI  I   1     -24.419 -13.396 -26.108  1.00 80.44      I
ATOM   8650  C12 BI  I   1     -23.698 -12.382 -25.197  1.00 80.23      I
ATOM   8651  C13 BI  I   1     -22.545 -11.657 -25.920  1.00 79.60      I
ATOM   8652  C14 BI  I   1     -22.988 -11.019 -27.247  1.00 79.15      I
ATOM   8653  C15 BI  I   1     -23.754 -11.999 -28.158  1.00 80.08      I
ATOM   8654  C16 BI  I   1     -27.999 -12.952 -28.197  1.00 80.62      I
ATOM   8655  C17 BI  I   1     -28.859 -12.130 -28.963  1.00 80.60      I
ATOM   8656  C18 BI  I   1     -29.660 -11.459 -28.062  1.00 80.50      I
ATOM   8657  O19 BI  I   1     -29.342 -11.821 -26.783  1.00 79.95      I
ATOM   8658  C20 BI  I   1     -28.330 -12.731 -26.873  1.00 80.43      I
ATOM   8659  C21 BI  I   1     -23.807 -18.303 -31.562  1.00 78.68      I
ATOM   8660  O22 BI  I   1     -22.583 -18.648 -31.590  1.00 76.82      I
ATOM   8661  O23 BI  I   1     -24.722 -18.900 -32.215  1.00 77.79      I
ATOM   8662  C24 BI  I   1     -28.455 -15.363 -30.192  1.00 83.42      I
ATOM   8663  C25 BI  I   1     -28.716 -14.699 -31.566  1.00 84.61      I
ATOM   8664  O26 BI  I   1     -27.779 -14.225 -32.229  1.00 83.17      I
ATOM   8665  N27 BI  I   1     -30.069 -14.636 -32.050  1.00 85.96      I
ATOM   8666  C28 BI  I   1     -31.210 -15.215 -31.275  1.00 86.92      I
ATOM   8667  C29 BI  I   1     -32.418 -14.252 -31.193  1.00 88.44      I
ATOM   8668  C30 BI  I   1     -32.750 -13.582 -32.550  1.00 88.67      I
ATOM   8669  C31 BI  I   1     -31.509 -12.978 -33.236  1.00 88.08      I
ATOM   8670  C32 BI  I   1     -30.353 -13.990 -33.357  1.00 86.78      I
ATOM   8671  C33 BI  I   1     -33.847 -12.494 -32.393  1.00 88.96      I
ATOM   8672  O34 BI  I   1     -33.724 -11.630 -31.464  1.00 89.42      I
ATOM   8673  O35 BI  I   1     -34.815 -12.509 -33.214  1.00 88.60      I
ATOM   8674  S   SO4 S 101     -11.150  50.072  23.239  1.00 89.61      S
ATOM   8675  O1  SO4 S 101     -10.249  51.220  22.991  1.00 89.47      S
ATOM   8676  O2  SO4 S 101     -11.956  50.320  24.455  1.00 89.55      S
ATOM   8677  O3  SO4 S 101     -12.062  49.885  22.081  1.00 89.00      S
ATOM   8678  O4  SO4 S 101     -10.336  48.849  23.440  1.00 89.75      S
ATOM   8679  S   SO4 S 102     -21.138  43.824  21.804  1.00 73.22      S
ATOM   8680  O1  SO4 S 102     -19.861  44.554  21.915  1.00 73.85      S
ATOM   8681  O2  SO4 S 102     -21.669  43.534  23.151  1.00 73.71      S
ATOM   8682  O3  SO4 S 102     -22.127  44.635  21.057  1.00 73.58      S
ATOM   8683  O4  SO4 S 102     -20.898  42.559  21.085  1.00 73.37      S
ATOM   8684  S   SO4 S 103     -39.281   3.031 -11.466  1.00 94.04      S
ATOM   8685  O1  SO4 S 103     -38.563   4.289 -11.162  1.00 93.99      S
ATOM   8686  O2  SO4 S 103     -39.947   2.522 -10.243  1.00 94.46      S
ATOM   8687  O3  SO4 S 103     -40.309   3.265 -12.512  1.00 93.25      S
ATOM   8688  O4  SO4 S 103     -38.309   2.020 -11.939  1.00 94.05      S
END
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FIGURE 5

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ATOM      1  CB  SER A   1      -7.308  44.263   4.785  1.00 32.17      A
ATOM      2  OG  SER A   1      -8.477  43.883   5.490  1.00 33.66      A
ATOM      3  C   SER A   1      -6.491  45.581   6.726  1.00 33.83      A
ATOM      4  O   SER A   1      -6.804  45.323   7.879  1.00 34.74      A
ATOM      5  N   SER A   1      -5.931  43.225   6.546  1.00 35.92      A
ATOM      6  CA  SER A   1      -6.152  44.467   5.757  1.00 33.74      A
ATOM      7  N   MET A   2      -6.421  46.822   6.268  1.00 34.02      A
ATOM      8  CA  MET A   2      -6.747  47.942   7.130  1.00 33.81      A
ATOM      9  CB  MET A   2      -6.570  49.260   6.385  1.00 33.94      A
ATOM     10  CG  MET A   2      -5.141  49.555   6.027  1.00 33.42      A
ATOM     11  SD  MET A   2      -4.094  49.441   7.472  1.00 40.73      A
ATOM     12  CE  MET A   2      -4.562  50.914   8.372  1.00 35.00      A
ATOM     13  C   MET A   2      -8.182  47.830   7.603  1.00 34.31      A
ATOM     14  O   MET A   2      -9.093  47.595   6.811  1.00 35.54      A
ATOM     15  N   SER A   3      -8.380  47.992   8.904  1.00 34.78      A
ATOM     16  CA  SER A   3      -9.714  47.927   9.479  1.00 34.32      A
ATOM     17  CB  SER A   3      -9.627  48.093  10.999  1.00 34.22      A
ATOM     18  OG  SER A   3      -9.065  49.350  11.334  1.00 36.49      A
ATOM     19  C   SER A   3     -10.535  49.063   8.868  1.00 33.41      A
ATOM     20  O   SER A   3     -11.727  48.922   8.610  1.00 32.47      A
ATOM     21  N   TYR A   4      -9.872  50.188   8.625  1.00 33.49      A
ATOM     22  CA  TYR A   4     -10.524  51.357   8.049  1.00 34.47      A
ATOM     23  CB  TYR A   4     -10.934  52.326   9.161  1.00 33.68      A
ATOM     24  CG  TYR A   4     -12.073  51.845  10.030  1.00 35.72      A
ATOM     25  CD1 TYR A   4     -13.400  52.005   9.626  1.00 34.60      A
ATOM     26  CE1 TYR A   4     -14.445  51.579  10.425  1.00 34.05      A
ATOM     27  CD2 TYR A   4     -11.828  51.235  11.263  1.00 34.68      A
ATOM     28  CE2 TYR A   4     -12.874  50.797  12.065  1.00 32.44      A
ATOM     29  CZ  TYR A   4     -14.175  50.973  11.642  1.00 33.27      A
ATOM     30  OH  TYR A   4     -15.211  50.531  12.432  1.00 35.84      A
ATOM     31  C   TYR A   4      -9.630  52.105   7.056  1.00 35.31      A
ATOM     32  O   TYR A   4      -8.401  51.998   7.090  1.00 35.08      A
ATOM     33  N   THR A   5     -10.275  52.854   6.169  1.00 35.26      A
ATOM     34  CA  THR A   5      -9.604  53.683   5.179  1.00 34.49      A
ATOM     35  CB  THR A   5      -9.646  53.064   3.803  1.00 33.16      A
ATOM     36  OG1 THR A   5      -8.652  52.040   3.717  1.00 35.42      A
ATOM     37  CG2 THR A   5      -9.378  54.113   2.756  1.00 33.79      A
ATOM     38  C   THR A   5     -10.392  54.982   5.142  1.00 36.05      A
ATOM     39  O   THR A   5     -11.618  54.962   5.072  1.00 37.55      A
ATOM     40  N   TRP A   6      -9.704  56.114   5.181  1.00 36.14      A
ATOM     41  CA  TRP A   6     -10.410  57.386   5.179  1.00 35.86      A
ATOM     42  CB  TRP A   6     -10.127  58.132   6.484  1.00 33.22      A
ATOM     43  CG  TRP A   6     -10.224  57.238   7.683  1.00 33.15      A
ATOM     44  CD2 TRP A   6     -11.415  56.874   8.393  1.00 33.00      A
ATOM     45  CE2 TRP A   6     -11.034  55.989   9.419  1.00 33.89      A
ATOM     46  CE3 TRP A   6     -12.768  57.215   8.264  1.00 33.18      A
ATOM     47  CD1 TRP A   6      -9.201  56.575   8.290  1.00 33.09      A
ATOM     48  NE1 TRP A   6      -9.676  55.822   9.334  1.00 34.18      A
ATOM     49  CZ2 TRP A   6     -11.960  55.432  10.308  1.00 32.64      A
ATOM     50  CZ3 TRP A   6     -13.685  56.662   9.151  1.00 30.67      A
ATOM     51  CH2 TRP A   6     -13.275  55.784  10.158  1.00 30.95      A
ATOM     52  C   TRP A   6     -10.100  58.275   3.983  1.00 35.46      A
ATOM     53  O   TRP A   6      -8.964  58.360   3.521  1.00 35.59      A
ATOM     54  N   THR A   7     -11.135  58.931   3.482  1.00 34.58      A
ATOM     55  CA  THR A   7     -10.995  59.812   2.343  1.00 35.33      A
ATOM     56  CB  THR A   7     -12.357  60.145   1.743  1.00 34.91      A
ATOM     57  OG1 THR A   7     -13.142  60.822   2.735  1.00 32.64      A
ATOM     58  CG2 THR A   7     -13.068  58.876   1.271  1.00 32.06      A
ATOM     59  C   THR A   7     -10.368  61.118   2.814  1.00 37.63      A
ATOM     60  O   THR A   7      -9.585  61.746   2.098  1.00 38.17      A
ATOM     61  N   GLY A   8     -10.729  61.518   4.025  1.00 37.40      A
ATOM     62  CA  GLY A   8     -10.220  62.754   4.580  1.00 38.06      A
ATOM     63  C   GLY A   8     -11.365  63.563   5.160  1.00 39.70      A
ATOM     64  O   GLY A   8     -11.168  64.372   6.073  1.00 40.12      A
ATOM     65  N   ALA A   9     -12.567  63.347   4.622  1.00 39.36      A
ATOM     66  CA  ALA A   9     -13.756  64.037   5.099  1.00 38.55      A
ATOM     67  CB  ALA A   9     -14.959  63.602   4.307  1.00 38.68      A
ATOM     68  C   ALA A   9     -13.952  63.719   6.580  1.00 40.04      A
ATOM     69  O   ALA A   9     -13.564  62.657   7.069  1.00 39.72      A
ATOM     70  N   LEU A  10     -14.580  64.637   7.295  1.00 40.25      A
ATOM     71  CA  LEU A  10     -14.759  64.451   8.721  1.00 39.87      A
ATOM     72  CB  LEU A  10     -14.633  65.806   9.420  1.00 39.76      A
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ATOM	73	CG	LEU	A	10	-13.375	66.642	9.167	1.00	39.01	A
ATOM	74	CD1	LEU	A	10	-13.443	67.872	10.059	1.00	36.61	A
ATOM	75	CD2	LEU	A	10	-12.107	65.833	9.445	1.00	37.67	A
ATOM	76	C	LEU	A	10	-16.048	63.791	9.177	1.00	39.24	A
ATOM	77	O	LEU	A	10	-17.086	63.893	8.525	1.00	39.38	A
ATOM	78	N	ILE	A	11	-15.965	63.099	10.308	1.00	38.14	A
ATOM	79	CA	ILE	A	11	-17.147	62.488	10.890	1.00	38.98	A
ATOM	80	CB	ILE	A	11	-16.786	61.495	12.017	1.00	36.94	A
ATOM	81	CG2	ILE	A	11	-18.050	60.973	12.672	1.00	34.95	A
ATOM	82	CG1	ILE	A	11	-15.989	60.327	11.442	1.00	35.63	A
ATOM	83	CD1	ILE	A	11	-15.284	59.496	12.496	1.00	37.37	A
ATOM	84	C	ILE	A	11	-17.887	63.703	11.465	1.00	40.00	A
ATOM	85	O	ILE	A	11	-17.385	64.389	12.350	1.00	40.60	A
ATOM	86	N	THR	A	12	-19.079	63.967	10.952	1.00	41.68	A
ATOM	87	CA	THR	A	12	-19.835	65.134	11.363	1.00	43.73	A
ATOM	88	CB	THR	A	12	-20.206	65.945	10.116	1.00	43.24	A
ATOM	89	OG1	THR	A	12	-20.990	65.127	9.235	1.00	44.68	A
ATOM	90	CG2	THR	A	12	-18.951	66.375	9.381	1.00	40.09	A
ATOM	91	C	THR	A	12	-21.106	64.852	12.152	1.00	46.73	A
ATOM	92	O	THR	A	12	-21.635	63.743	12.118	1.00	49.33	A
ATOM	93	N	PRO	A	13	-21.608	65.863	12.884	1.00	48.80	A
ATOM	94	CD	PRO	A	13	-20.842	67.061	13.248	1.00	48.72	A
ATOM	95	CA	PRO	A	13	-22.825	65.787	13.702	1.00	49.75	A
ATOM	96	CB	PRO	A	13	-22.495	66.662	14.919	1.00	48.87	A
ATOM	97	CG	PRO	A	13	-21.058	67.102	14.724	1.00	48.55	A
ATOM	98	C	PRO	A	13	-23.995	66.379	12.924	1.00	51.28	A
ATOM	99	O	PRO	A	13	-23.780	67.125	11.971	1.00	51.66	A
ATOM	100	N	CYS	A	14	-25.222	66.057	13.325	1.00	53.51	A
ATOM	101	CA	CYS	A	14	-26.399	66.613	12.658	1.00	57.37	A
ATOM	102	CB	CYS	A	14	-27.626	65.720	12.824	1.00	57.92	A
ATOM	103	SG	CYS	A	14	-27.288	63.983	12.990	1.00	63.15	A
ATOM	104	C	CYS	A	14	-26.693	67.923	13.364	1.00	58.82	A
ATOM	105	O	CYS	A	14	-26.558	69.010	12.793	1.00	60.30	A
ATOM	106	N	ALA	A	15	-27.095	67.794	14.625	1.00	59.40	A
ATOM	107	CA	ALA	A	15	-27.426	68.936	15.459	1.00	59.71	A
ATOM	108	CB	ALA	A	15	-28.706	68.650	16.248	1.00	59.27	A
ATOM	109	C	ALA	A	15	-26.276	69.245	16.413	1.00	59.57	A
ATOM	110	O	ALA	A	15	-25.255	68.547	16.419	1.00	58.58	A
ATOM	111	N	ALA	A	16	-26.459	70.299	17.209	1.00	58.89	A
ATOM	112	CA	ALA	A	16	-25.470	70.736	18.190	1.00	57.61	A
ATOM	113	CB	ALA	A	16	-26.011	71.937	18.980	1.00	58.01	A
ATOM	114	C	ALA	A	16	-25.136	69.594	19.143	1.00	56.01	A
ATOM	115	O	ALA	A	16	-25.865	68.605	19.225	1.00	53.85	A
ATOM	116	N	GLU	A	17	-24.032	69.739	19.866	1.00	55.18	A
ATOM	117	CA	GLU	A	17	-23.614	68.715	20.805	1.00	54.60	A
ATOM	118	CB	GLU	A	17	-22.402	67.962	20.257	1.00	54.84	A
ATOM	119	CG	GLU	A	17	-22.680	67.162	18.992	1.00	53.25	A
ATOM	120	CD	GLU	A	17	-21.411	66.763	18.270	1.00	53.44	A
ATOM	121	OE1	GLU	A	17	-20.704	67.666	17.769	1.00	52.07	A
ATOM	122	OE2	GLU	A	17	-21.117	65.552	18.206	1.00	54.54	A
ATOM	123	C	GLU	A	17	-23.275	69.308	22.156	1.00	54.61	A
ATOM	124	O	GLU	A	17	-22.309	70.059	22.295	1.00	53.67	A
ATOM	125	N	GLU	A	18	-24.085	68.968	23.151	1.00	55.53	A
ATOM	126	CA	GLU	A	18	-23.860	69.437	24.509	1.00	56.79	A
ATOM	127	CB	GLU	A	18	-25.124	69.259	25.343	1.00	61.33	A
ATOM	128	CG	GLU	A	18	-26.397	69.681	24.629	1.00	67.21	A
ATOM	129	CD	GLU	A	18	-26.350	71.124	24.172	1.00	70.13	A
ATOM	130	OE1	GLU	A	18	-26.303	72.029	25.038	1.00	70.85	A
ATOM	131	OE2	GLU	A	18	-26.354	71.347	22.940	1.00	71.98	A
ATOM	132	C	GLU	A	18	-22.751	68.562	25.075	1.00	55.12	A
ATOM	133	O	GLU	A	18	-22.816	67.339	24.977	1.00	53.51	A
ATOM	134	N	SER	A	19	-21.736	69.182	25.661	1.00	54.58	A
ATOM	135	CA	SER	A	19	-20.622	68.426	26.218	1.00	54.85	A
ATOM	136	CB	SER	A	19	-19.326	68.792	25.494	1.00	55.86	A
ATOM	137	OG	SER	A	19	-19.036	70.173	25.645	1.00	56.95	A
ATOM	138	C	SER	A	19	-20.452	68.688	27.706	1.00	53.86	A
ATOM	139	O	SER	A	19	-19.937	67.851	28.442	1.00	53.84	A
ATOM	140	N	LYS	A	20	-20.886	69.860	28.145	1.00	53.58	A
ATOM	141	CA	LYS	A	20	-20.762	70.217	29.544	1.00	52.21	A
ATOM	142	CB	LYS	A	20	-20.319	71.672	29.667	1.00	52.05	A
ATOM	143	CG	LYS	A	20	-18.911	71.881	29.125	1.00	55.70	A
ATOM	144	CD	LYS	A	20	-18.390	73.289	29.342	1.00	58.18	A
ATOM	145	CE	LYS	A	20	-17.026	73.457	28.682	1.00	60.63	A
ATOM	146	NZ	LYS	A	20	-16.534	74.873	28.694	1.00	60.53	A
ATOM	147	C	LYS	A	20	-22.046	69.978	30.315	1.00	51.45	A

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ATOM    148  O   LYS A  20     -23.145  70.150  29.789  1.00 52.16      A
ATOM    149  N   LEU A  21     -21.889  69.546  31.561  1.00 50.39      A
ATOM    150  CA  LEU A  21     -23.015  69.286  32.441  1.00 47.88      A
ATOM    151  CB  LEU A  21     -22.547  68.444  33.619  1.00 46.19      A
ATOM    152  CG  LEU A  21     -23.561  68.228  34.733  1.00 46.56      A
ATOM    153  CD1 LEU A  21     -24.825  67.596  34.171  1.00 46.58      A
ATOM    154  CD2 LEU A  21     -22.936  67.355  35.804  1.00 45.22      A
ATOM    155  C   LEU A  21     -23.567  70.621  32.936  1.00 47.33      A
ATOM    156  O   LEU A  21     -22.857  71.395  33.577  1.00 47.04      A
ATOM    157  N   PRO A  22     -24.840  70.910  32.634  1.00 47.47      A
ATOM    158  CD  PRO A  22     -25.747  70.045  31.858  1.00 48.73      A
ATOM    159  CA  PRO A  22     -25.515  72.153  33.034  1.00 47.77      A
ATOM    160  CB  PRO A  22     -26.936  71.975  32.489  1.00 48.43      A
ATOM    161  CG  PRO A  22     -26.760  71.033  31.332  1.00 48.12      A
ATOM    162  C   PRO A  22     -25.529  72.376  34.546  1.00 47.58      A
ATOM    163  O   PRO A  22     -25.309  71.443  35.324  1.00 48.95      A
ATOM    164  N   ILE A  23     -25.790  73.617  34.951  1.00 46.10      A
ATOM    165  CA  ILE A  23     -25.868  73.978  36.364  1.00 45.43      A
ATOM    166  CB  ILE A  23     -25.255  75.379  36.610  1.00 45.78      A
ATOM    167  CG2 ILE A  23     -25.396  75.779  38.083  1.00 45.20      A
ATOM    168  CG1 ILE A  23     -23.784  75.376  36.183  1.00 45.06      A
ATOM    169  CD1 ILE A  23     -23.057  76.679  36.449  1.00 45.11      A
ATOM    170  C   ILE A  23     -27.355  73.981  36.738  1.00 45.57      A
ATOM    171  O   ILE A  23     -27.981  75.033  36.854  1.00 47.64      A
ATOM    172  N   ASN A  24     -27.907  72.786  36.920  1.00 44.69      A
ATOM    173  CA  ASN A  24     -29.318  72.604  37.238  1.00 44.37      A
ATOM    174  CB  ASN A  24     -29.862  71.482  36.352  1.00 47.34      A
ATOM    175  CG  ASN A  24     -31.322  71.198  36.592  1.00 50.44      A
ATOM    176  OD1 ASN A  24     -31.718  70.806  37.690  1.00 54.60      A
ATOM    177  ND2 ASN A  24     -32.137  71.387  35.561  1.00 49.63      A
ATOM    178  C   ASN A  24     -29.554  72.273  38.714  1.00 43.13      A
ATOM    179  O   ASN A  24     -28.873  71.422  39.285  1.00 44.58      A
ATOM    180  N   PRO A  25     -30.529  72.937  39.352  1.00 40.17      A
ATOM    181  CD  PRO A  25     -31.461  73.947  38.834  1.00 38.87      A
ATOM    182  CA  PRO A  25     -30.794  72.656  40.768  1.00 39.97      A
ATOM    183  CB  PRO A  25     -31.974  73.582  41.094  1.00 37.41      A
ATOM    184  CG  PRO A  25     -32.620  73.815  39.782  1.00 38.22      A
ATOM    185  C   PRO A  25     -31.076  71.179  41.067  1.00 39.94      A
ATOM    186  O   PRO A  25     -30.552  70.618  42.033  1.00 40.27      A
ATOM    187  N   LEU A  26     -31.890  70.553  40.224  1.00 39.24      A
ATOM    188  CA  LEU A  26     -32.239  69.144  40.377  1.00 38.95      A
ATOM    189  CB  LEU A  26     -33.261  68.755  39.321  1.00 38.99      A
ATOM    190  CG  LEU A  26     -34.710  68.713  39.781  1.00 37.75      A
ATOM    191  CD1 LEU A  26     -34.950  69.679  40.925  1.00 38.11      A
ATOM    192  CD2 LEU A  26     -35.579  69.036  38.589  1.00 37.67      A
ATOM    193  C   LEU A  26     -31.049  68.190  40.297  1.00 39.32      A
ATOM    194  O   LEU A  26     -30.928  67.268  41.102  1.00 39.45      A
ATOM    195  N   SER A  27     -30.181  68.393  39.314  1.00 38.67      A
ATOM    196  CA  SER A  27     -29.005  67.545  39.169  1.00 36.40      A
ATOM    197  CB  SER A  27     -28.400  67.728  37.779  1.00 36.04      A
ATOM    198  OG  SER A  27     -28.034  69.083  37.558  1.00 36.43      A
ATOM    199  C   SER A  27     -27.958  67.900  40.222  1.00 35.70      A
ATOM    200  O   SER A  27     -27.202  67.048  40.674  1.00 35.04      A
ATOM    201  N   ASN A  28     -27.929  69.167  40.621  1.00 36.84      A
ATOM    202  CA  ASN A  28     -26.947  69.635  41.587  1.00 37.93      A
ATOM    203  CB  ASN A  28     -26.930  71.166  41.632  1.00 37.90      A
ATOM    204  CG  ASN A  28     -25.773  71.708  42.458  1.00 38.71      A
ATOM    205  OD1 ASN A  28     -24.607  71.456  42.154  1.00 38.79      A
ATOM    206  ND2 ASN A  28     -26.090  72.451  43.511  1.00 37.98      A
ATOM    207  C   ASN A  28     -27.119  69.083  42.998  1.00 39.08      A
ATOM    208  O   ASN A  28     -26.154  69.053  43.773  1.00 38.61      A
ATOM    209  N   SER A  29     -28.331  68.659  43.352  1.00 39.15      A
ATOM    210  CA  SER A  29     -28.530  68.107  44.686  1.00 40.44      A
ATOM    211  CB  SER A  29     -30.017  68.091  45.069  1.00 40.66      A
ATOM    212  OG  SER A  29     -30.765  67.185  44.281  1.00 42.15      A
ATOM    213  C   SER A  29     -27.958  66.695  44.683  1.00 40.37      A
ATOM    214  O   SER A  29     -27.768  66.088  45.736  1.00 41.98      A
ATOM    215  N   LEU A  30     -27.653  66.202  43.482  1.00 39.96      A
ATOM    216  CA  LEU A  30     -27.094  64.865  43.277  1.00 38.24      A
ATOM    217  CB  LEU A  30     -27.729  64.222  42.045  1.00 38.64      A
ATOM    218  CG  LEU A  30     -27.078  62.938  41.529  1.00 39.67      A
ATOM    219  CD1 LEU A  30     -27.285  61.824  42.532  1.00 39.59      A
ATOM    220  CD2 LEU A  30     -27.682  62.552  40.202  1.00 39.68      A
ATOM    221  C   LEU A  30     -25.575  64.827  43.109  1.00 37.43      A
ATOM    222  O   LEU A  30     -24.909  63.967  43.684  1.00 37.50      A
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ATOM    223  N   LEU A  31     -25.032  65.747  42.316  1.00 35.79      A
ATOM    224  CA  LEU A  31     -23.593  65.782  42.053  1.00 35.29      A
ATOM    225  CB  LEU A  31     -23.319  64.940  40.803  1.00 32.00      A
ATOM    226  CG  LEU A  31     -21.925  64.590  40.292  1.00 30.56      A
ATOM    227  CD1 LEU A  31     -21.997  63.290  39.492  1.00 24.56      A
ATOM    228  CD2 LEU A  31     -21.387  65.728  39.442  1.00 28.81      A
ATOM    229  C   LEU A  31     -23.137  67.233  41.873  1.00 36.89      A
ATOM    230  O   LEU A  31     -23.411  67.864  40.856  1.00 37.13      A
ATOM    231  N   ARG A  32     -22.441  67.757  42.877  1.00 38.44      A
ATOM    232  CA  ARG A  32     -21.986  69.149  42.870  1.00 38.98      A
ATOM    233  CB  ARG A  32     -21.614  69.591  44.298  1.00 40.54      A
ATOM    234  CG  ARG A  32     -22.795  69.906  45.217  1.00 41.06      A
ATOM    235  CD  ARG A  32     -23.750  68.718  45.368  1.00 44.15      A
ATOM    236  NE  ARG A  32     -24.962  69.092  46.094  1.00 45.67      A
ATOM    237  CZ  ARG A  32     -25.036  69.220  47.416  1.00 45.96      A
ATOM    238  NH1 ARG A  32     -23.964  68.991  48.167  1.00 43.40      A
ATOM    239  NH2 ARG A  32     -26.179  69.597  47.980  1.00 44.96      A
ATOM    240  C   ARG A  32     -20.838  69.488  41.931  1.00 39.34      A
ATOM    241  O   ARG A  32     -20.821  70.571  41.352  1.00 39.07      A
ATOM    242  N   HIS A  33     -19.879  68.575  41.793  1.00 40.53      A
ATOM    243  CA  HIS A  33     -18.717  68.784  40.927  1.00 41.09      A
ATOM    244  CB  HIS A  33     -17.594  67.836  41.353  1.00 40.86      A
ATOM    245  CG  HIS A  33     -17.114  68.062  42.756  1.00 42.03      A
ATOM    246  CD2 HIS A  33     -17.350  69.073  43.627  1.00 40.85      A
ATOM    247  ND1 HIS A  33     -16.270  67.185  43.406  1.00 40.02      A
ATOM    248  CE1 HIS A  33     -16.009  67.645  44.615  1.00 40.25      A
ATOM    249  NE2 HIS A  33     -16.652  68.789  44.775  1.00 40.94      A
ATOM    250  C   HIS A  33     -19.049  68.571  39.443  1.00 42.09      A
ATOM    251  O   HIS A  33     -18.463  67.711  38.780  1.00 41.94      A
ATOM    252  N   HIS A  34     -19.971  69.381  38.927  1.00 42.62      A
ATOM    253  CA  HIS A  34     -20.419  69.276  37.546  1.00 44.96      A
ATOM    254  CB  HIS A  34     -21.537  70.291  37.296  1.00 47.60      A
ATOM    255  CG  HIS A  34     -21.120  71.713  37.493  1.00 51.02      A
ATOM    256  CD2 HIS A  34     -21.491  72.631  38.418  1.00 52.02      A
ATOM    257  ND1 HIS A  34     -20.224  72.348  36.660  1.00 52.45      A
ATOM    258  CE1 HIS A  34     -20.063  73.597  37.062  1.00 52.74      A
ATOM    259  NE2 HIS A  34     -20.821  73.794  38.126  1.00 53.13      A
ATOM    260  C   HIS A  34     -19.356  69.389  36.446  1.00 45.40      A
ATOM    261  O   HIS A  34     -19.558  68.884  35.339  1.00 45.37      A
ATOM    262  N   ASN A  35     -18.228  70.029  36.730  1.00 45.24      A
ATOM    263  CA  ASN A  35     -17.185  70.150  35.716  1.00 45.53      A
ATOM    264  CB  ASN A  35     -16.227  71.297  36.062  1.00 45.70      A
ATOM    265  CG  ASN A  35     -16.917  72.652  36.057  1.00 45.69      A
ATOM    266  OD1 ASN A  35     -17.689  72.965  35.151  1.00 43.72      A
ATOM    267  ND2 ASN A  35     -16.635  73.463  37.067  1.00 46.37      A
ATOM    268  C   ASN A  35     -16.397  68.851  35.498  1.00 45.90      A
ATOM    269  O   ASN A  35     -15.513  68.782  34.640  1.00 46.85      A
ATOM    270  N   MET A  36     -16.706  67.816  36.267  1.00 44.29      A
ATOM    271  CA  MET A  36     -16.011  66.553  36.086  1.00 43.84      A
ATOM    272  CB  MET A  36     -15.746  65.902  37.436  1.00 45.33      A
ATOM    273  CG  MET A  36     -14.738  66.630  38.282  1.00 45.95      A
ATOM    274  SD  MET A  36     -14.803  65.990  39.954  1.00 48.69      A
ATOM    275  CE  MET A  36     -13.808  64.487  39.768  1.00 45.12      A
ATOM    276  C   MET A  36     -16.840  65.615  35.209  1.00 42.54      A
ATOM    277  O   MET A  36     -16.408  64.505  34.876  1.00 41.35      A
ATOM    278  N   VAL A  37     -18.033  66.074  34.838  1.00 40.96      A
ATOM    279  CA  VAL A  37     -18.943  65.294  34.005  1.00 39.38      A
ATOM    280  CB  VAL A  37     -20.389  65.348  34.543  1.00 37.40      A
ATOM    281  CG1 VAL A  37     -21.302  64.499  33.672  1.00 34.76      A
ATOM    282  CG2 VAL A  37     -20.426  64.880  35.983  1.00 36.47      A
ATOM    283  C   VAL A  37     -18.964  65.841  32.590  1.00 39.38      A
ATOM    284  O   VAL A  37     -19.380  66.974  32.371  1.00 40.42      A
ATOM    285  N   TYR A  38     -18.512  65.044  31.628  1.00 39.75      A
ATOM    286  CA  TYR A  38     -18.521  65.484  30.235  1.00 39.37      A
ATOM    287  CB  TYR A  38     -17.100  65.736  29.720  1.00 37.31      A
ATOM    288  CG  TYR A  38     -16.243  64.499  29.650  1.00 37.19      A
ATOM    289  CD1 TYR A  38     -15.699  63.941  30.808  1.00 36.23      A
ATOM    290  CE1 TYR A  38     -14.937  62.782  30.754  1.00 36.76      A
ATOM    291  CD2 TYR A  38     -16.000  63.863  28.430  1.00 35.15      A
ATOM    292  CE2 TYR A  38     -15.242  62.700  28.366  1.00 34.49      A
ATOM    293  CZ  TYR A  38     -14.714  62.163  29.533  1.00 36.75      A
ATOM    294  OH  TYR A  38     -13.983  60.995  29.501  1.00 37.20      A
ATOM    295  C   TYR A  38     -19.193  64.448  29.347  1.00 39.96      A
ATOM    296  O   TYR A  38     -19.513  63.334  29.785  1.00 39.64      A
ATOM    297  N   ALA A  39     -19.412  64.828  28.097  1.00 40.02      A
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ATOM	298	CA	ALA	A	39	-20.035	63.942	27.127	1.00	40.54	A
ATOM	299	CB	ALA	A	39	-21.431	64.430	26.798	1.00	39.67	A
ATOM	300	C	ALA	A	39	-19.171	63.981	25.887	1.00	40.28	A
ATOM	301	O	ALA	A	39	-18.748	65.064	25.471	1.00	41.76	A
ATOM	302	N	THR	A	40	-18.883	62.815	25.310	1.00	37.90	A
ATOM	303	CA	THR	A	40	-18.086	62.782	24.085	1.00	36.87	A
ATOM	304	CB	THR	A	40	-17.764	61.354	23.665	1.00	35.13	A
ATOM	305	OG1	THR	A	40	-18.981	60.605	23.594	1.00	36.93	A
ATOM	306	CG2	THR	A	40	-16.815	60.706	24.652	1.00	32.37	A
ATOM	307	C	THR	A	40	-18.887	63.438	22.955	1.00	37.03	A
ATOM	308	O	THR	A	40	-20.120	63.470	22.991	1.00	36.78	A
ATOM	309	N	THR	A	41	-18.186	63.980	21.966	1.00	37.57	A
ATOM	310	CA	THR	A	41	-18.837	64.623	20.825	1.00	38.68	A
ATOM	311	CB	THR	A	41	-18.903	66.163	20.972	1.00	39.40	A
ATOM	312	OG1	THR	A	41	-17.599	66.722	20.752	1.00	40.20	A
ATOM	313	CG2	THR	A	41	-19.395	66.554	22.364	1.00	37.28	A
ATOM	314	C	THR	A	41	-17.992	64.304	19.607	1.00	39.84	A
ATOM	315	O	THR	A	41	-16.914	63.723	19.739	1.00	40.43	A
ATOM	316	N	SER	A	42	-18.464	64.689	18.424	1.00	40.66	A
ATOM	317	CA	SER	A	42	-17.719	64.419	17.192	1.00	39.79	A
ATOM	318	CB	SER	A	42	-18.484	64.937	15.994	1.00	37.35	A
ATOM	319	OG	SER	A	42	-18.555	66.341	16.070	1.00	39.62	A
ATOM	320	C	SER	A	42	-16.353	65.089	17.221	1.00	40.16	A
ATOM	321	O	SER	A	42	-15.413	64.627	16.578	1.00	41.37	A
ATOM	322	N	ARG	A	43	-16.244	66.173	17.980	1.00	39.91	A
ATOM	323	CA	ARG	A	43	-14.991	66.906	18.066	1.00	40.01	A
ATOM	324	CB	ARG	A	43	-15.118	68.061	19.064	1.00	40.58	A
ATOM	325	CG	ARG	A	43	-16.090	69.131	18.613	1.00	42.30	A
ATOM	326	CD	ARG	A	43	-15.879	70.419	19.375	1.00	44.72	A
ATOM	327	NE	ARG	A	43	-16.382	70.363	20.746	1.00	47.47	A
ATOM	328	CZ	ARG	A	43	-17.669	70.268	21.070	1.00	47.72	A
ATOM	329	NH1	ARG	A	43	-18.598	70.211	20.117	1.00	44.40	A
ATOM	330	NH2	ARG	A	43	-18.028	70.252	22.350	1.00	47.16	A
ATOM	331	C	ARG	A	43	-13.778	66.053	18.412	1.00	39.04	A
ATOM	332	O	ARG	A	43	-12.644	66.477	18.194	1.00	38.05	A
ATOM	333	N	SER	A	44	-13.999	64.857	18.948	1.00	37.51	A
ATOM	334	CA	SER	A	44	-12.871	64.002	19.290	1.00	35.90	A
ATOM	335	CB	SER	A	44	-12.913	63.611	20.775	1.00	36.76	A
ATOM	336	OG	SER	A	44	-14.060	62.850	21.115	1.00	37.72	A
ATOM	337	C	SER	A	44	-12.807	62.754	18.422	1.00	35.21	A
ATOM	338	O	SER	A	44	-11.939	61.904	18.617	1.00	35.63	A
ATOM	339	N	ALA	A	45	-13.715	62.658	17.456	1.00	33.81	A
ATOM	340	CA	ALA	A	45	-13.771	61.512	16.547	1.00	34.27	A
ATOM	341	CB	ALA	A	45	-14.733	61.807	15.402	1.00	34.62	A
ATOM	342	C	ALA	A	45	-12.395	61.172	15.990	1.00	34.11	A
ATOM	343	O	ALA	A	45	-11.975	60.018	15.967	1.00	32.26	A
ATOM	344	N	SER	A	46	-11.706	62.205	15.534	1.00	36.08	A
ATOM	345	CA	SER	A	46	-10.374	62.079	14.970	1.00	36.81	A
ATOM	346	CB	SER	A	46	-9.758	63.473	14.880	1.00	37.25	A
ATOM	347	OG	SER	A	46	-8.399	63.401	14.500	1.00	40.51	A
ATOM	348	C	SER	A	46	-9.474	61.160	15.798	1.00	37.63	A
ATOM	349	O	SER	A	46	-8.767	60.299	15.262	1.00	36.53	A
ATOM	350	N	LEU	A	47	-9.509	61.350	17.114	1.00	39.34	A
ATOM	351	CA	LEU	A	47	-8.687	60.565	18.036	1.00	40.40	A
ATOM	352	CB	LEU	A	47	-8.809	61.138	19.442	1.00	40.83	A
ATOM	353	CG	LEU	A	47	-8.209	62.543	19.488	1.00	41.54	A
ATOM	354	CD1	LEU	A	47	-8.690	63.299	20.706	1.00	38.89	A
ATOM	355	CD2	LEU	A	47	-6.705	62.413	19.456	1.00	39.19	A
ATOM	356	C	LEU	A	47	-9.038	59.094	18.051	1.00	40.30	A
ATOM	357	O	LEU	A	47	-8.154	58.247	18.158	1.00	40.63	A
ATOM	358	N	ARG	A	48	-10.331	58.802	17.943	1.00	40.29	A
ATOM	359	CA	ARG	A	48	-10.830	57.431	17.938	1.00	40.66	A
ATOM	360	CB	ARG	A	48	-12.355	57.431	18.095	1.00	41.46	A
ATOM	361	CG	ARG	A	48	-12.971	56.064	18.291	1.00	42.44	A
ATOM	362	CD	ARG	A	48	-12.432	55.364	19.540	1.00	47.08	A
ATOM	363	NE	ARG	A	48	-12.938	53.992	19.628	1.00	52.17	A
ATOM	364	CZ	ARG	A	48	-12.463	53.051	20.443	1.00	51.49	A
ATOM	365	NH1	ARG	A	48	-11.451	53.327	21.260	1.00	50.45	A
ATOM	366	NH2	ARG	A	48	-12.999	51.830	20.432	1.00	48.45	A
ATOM	367	C	ARG	A	48	-10.437	56.746	16.631	1.00	41.04	A
ATOM	368	O	ARG	A	48	-10.041	55.573	16.615	1.00	40.01	A
ATOM	369	N	GLN	A	49	-10.539	57.493	15.537	1.00	40.61	A
ATOM	370	CA	GLN	A	49	-10.197	56.966	14.230	1.00	40.46	A
ATOM	371	CB	GLN	A	49	-10.379	58.042	13.164	1.00	38.84	A
ATOM	372	CG	GLN	A	49	-11.771	58.614	13.132	1.00	41.24	A

ATOM	373	CD	GLN	A	49	-11.975	59.579	11.997	1.00	41.34	A
ATOM	374	OE1	GLN	A	49	-12.009	59.190	10.833	1.00	42.46	A
ATOM	375	NE2	GLN	A	49	-12.111	60.851	12.329	1.00	44.02	A
ATOM	376	C	GLN	A	49	-8.759	56.497	14.234	1.00	40.51	A
ATOM	377	O	GLN	A	49	-8.442	55.394	13.792	1.00	41.03	A
ATOM	378	N	LYS	A	50	-7.885	57.342	14.754	1.00	41.08	A
ATOM	379	CA	LYS	A	50	-6.473	57.020	14.788	1.00	41.03	A
ATOM	380	CB	LYS	A	50	-5.694	58.175	15.416	1.00	42.77	A
ATOM	381	CG	LYS	A	50	-4.228	58.221	15.017	1.00	46.06	A
ATOM	382	CD	LYS	A	50	-3.312	57.663	16.094	1.00	48.55	A
ATOM	383	CE	LYS	A	50	-1.861	57.736	15.637	1.00	50.90	A
ATOM	384	NZ	LYS	A	50	-1.581	59.048	14.984	1.00	54.44	A
ATOM	385	C	LYS	A	50	-6.207	55.735	15.544	1.00	39.51	A
ATOM	386	O	LYS	A	50	-5.252	55.026	15.244	1.00	40.21	A
ATOM	387	N	LYS	A	51	-7.069	55.418	16.504	1.00	39.20	A
ATOM	388	CA	LYS	A	51	-6.878	54.219	17.314	1.00	39.14	A
ATOM	389	CB	LYS	A	51	-7.367	54.460	18.747	1.00	40.19	A
ATOM	390	CG	LYS	A	51	-7.057	53.306	19.702	1.00	42.05	A
ATOM	391	CD	LYS	A	51	-7.458	53.642	21.130	1.00	42.00	A
ATOM	392	CE	LYS	A	51	-7.042	52.551	22.107	1.00	42.04	A
ATOM	393	NZ	LYS	A	51	-7.525	52.853	23.485	1.00	41.39	A
ATOM	394	C	LYS	A	51	-7.533	52.958	16.775	1.00	38.22	A
ATOM	395	O	LYS	A	51	-7.021	51.857	16.977	1.00	40.46	A
ATOM	396	N	VAL	A	52	-8.659	53.112	16.091	1.00	35.55	A
ATOM	397	CA	VAL	A	52	-9.371	51.962	15.553	1.00	33.46	A
ATOM	398	CB	VAL	A	52	-10.899	52.226	15.528	1.00	30.28	A
ATOM	399	CG1	VAL	A	52	-11.380	52.630	16.923	1.00	25.56	A
ATOM	400	CG2	VAL	A	52	-11.226	53.319	14.527	1.00	25.75	A
ATOM	401	C	VAL	A	52	-8.893	51.598	14.148	1.00	35.27	A
ATOM	402	O	VAL	A	52	-9.313	50.592	13.580	1.00	38.11	A
ATOM	403	N	THR	A	53	-8.014	52.422	13.589	1.00	34.13	A
ATOM	404	CA	THR	A	53	-7.495	52.178	12.252	1.00	31.84	A
ATOM	405	CB	THR	A	53	-7.328	53.486	11.452	1.00	29.80	A
ATOM	406	OG1	THR	A	53	-8.579	54.182	11.371	1.00	28.22	A
ATOM	407	CG2	THR	A	53	-6.833	53.182	10.060	1.00	25.32	A
ATOM	408	C	THR	A	53	-6.130	51.528	12.359	1.00	33.39	A
ATOM	409	O	THR	A	53	-5.198	52.106	12.917	1.00	35.61	A
ATOM	410	N	PHE	A	54	-6.015	50.321	11.833	1.00	32.25	A
ATOM	411	CA	PHE	A	54	-4.758	49.612	11.856	1.00	31.83	A
ATOM	412	CB	PHE	A	54	-4.346	49.259	13.295	1.00	32.12	A
ATOM	413	CG	PHE	A	54	-5.357	48.436	14.051	1.00	32.14	A
ATOM	414	CD1	PHE	A	54	-5.410	47.052	13.895	1.00	32.09	A
ATOM	415	CD2	PHE	A	54	-6.269	49.049	14.909	1.00	32.86	A
ATOM	416	CE1	PHE	A	54	-6.351	46.285	14.591	1.00	32.22	A
ATOM	417	CE2	PHE	A	54	-7.213	48.295	15.609	1.00	34.40	A
ATOM	418	CZ	PHE	A	54	-7.257	46.907	15.447	1.00	33.08	A
ATOM	419	C	PHE	A	54	-4.873	48.369	11.001	1.00	33.10	A
ATOM	420	O	PHE	A	54	-5.969	47.981	10.580	1.00	31.01	A
ATOM	421	N	ASP	A	55	-3.730	47.753	10.741	1.00	33.62	A
ATOM	422	CA	ASP	A	55	-3.688	46.572	9.911	1.00	35.51	A
ATOM	423	CB	ASP	A	55	-2.390	46.588	9.112	1.00	36.74	A
ATOM	424	CG	ASP	A	55	-2.376	45.570	8.016	1.00	40.49	A
ATOM	425	OD1	ASP	A	55	-3.469	45.078	7.655	1.00	44.06	A
ATOM	426	OD2	ASP	A	55	-1.275	45.264	7.508	1.00	42.40	A
ATOM	427	C	ASP	A	55	-3.807	45.316	10.769	1.00	36.53	A
ATOM	428	O	ASP	A	55	-3.065	45.145	11.740	1.00	37.32	A
ATOM	429	N	ARG	A	56	-4.758	44.451	10.415	1.00	36.48	A
ATOM	430	CA	ARG	A	56	-5.003	43.216	11.162	1.00	36.62	A
ATOM	431	CB	ARG	A	56	-6.474	42.792	11.048	1.00	34.87	A
ATOM	432	CG	ARG	A	56	-7.464	43.616	11.855	1.00	36.84	A
ATOM	433	CD	ARG	A	56	-7.767	44.934	11.187	1.00	37.72	A
ATOM	434	NE	ARG	A	56	-8.378	44.738	9.875	1.00	37.65	A
ATOM	435	CZ	ARG	A	56	-9.622	44.316	9.684	1.00	38.25	A
ATOM	436	NH1	ARG	A	56	-10.396	44.047	10.726	1.00	40.59	A
ATOM	437	NH2	ARG	A	56	-10.090	44.154	8.453	1.00	38.46	A
ATOM	438	C	ARG	A	56	-4.134	42.028	10.761	1.00	37.49	A
ATOM	439	O	ARG	A	56	-3.980	41.717	9.580	1.00	39.81	A
ATOM	440	N	LEU	A	57	-3.585	41.355	11.764	1.00	37.44	A
ATOM	441	CA	LEU	A	57	-2.753	40.171	11.549	1.00	37.02	A
ATOM	442	CB	LEU	A	57	-1.440	40.301	12.352	1.00	37.38	A
ATOM	443	CG	LEU	A	57	-0.475	39.135	12.624	1.00	37.53	A
ATOM	444	CD1	LEU	A	57	0.772	39.683	13.301	1.00	36.94	A
ATOM	445	CD2	LEU	A	57	-1.119	38.081	13.524	1.00	37.63	A
ATOM	446	C	LEU	A	57	-3.555	38.966	12.036	1.00	35.17	A
ATOM	447	O	LEU	A	57	-4.112	38.998	13.129	1.00	34.35	A

ATOM	448	N	GLN	A	58	-3.620	37.910	11.235	1.00	34.25	A
ATOM	449	CA	GLN	A	58	-4.351	36.720	11.655	1.00	33.54	A
ATOM	450	CB	GLN	A	58	-5.819	36.849	11.258	1.00	33.39	A
ATOM	451	CG	GLN	A	58	-6.731	35.761	11.806	1.00	32.23	A
ATOM	452	CD	GLN	A	58	-8.190	36.140	11.681	1.00	32.01	A
ATOM	453	OE1	GLN	A	58	-8.653	36.536	10.610	1.00	33.05	A
ATOM	454	NE2	GLN	A	58	-8.923	36.022	12.777	1.00	30.56	A
ATOM	455	C	GLN	A	58	-3.773	35.421	11.102	1.00	33.93	A
ATOM	456	O	GLN	A	58	-3.581	35.283	9.902	1.00	34.95	A
ATOM	457	N	VAL	A	59	-3.490	34.476	11.991	1.00	34.22	A
ATOM	458	CA	VAL	A	59	-2.951	33.188	11.595	1.00	35.13	A
ATOM	459	CB	VAL	A	59	-1.496	33.023	12.058	1.00	35.72	A
ATOM	460	CG1	VAL	A	59	-0.953	31.680	11.582	1.00	33.78	A
ATOM	461	CG2	VAL	A	59	-0.648	34.167	11.533	1.00	36.61	A
ATOM	462	C	VAL	A	59	-3.788	32.130	12.286	1.00	36.32	A
ATOM	463	O	VAL	A	59	-3.739	32.004	13.504	1.00	38.80	A
ATOM	464	N	LEU	A	60	-4.556	31.372	11.517	1.00	36.24	A
ATOM	465	CA	LEU	A	60	-5.406	30.343	12.100	1.00	37.08	A
ATOM	466	CB	LEU	A	60	-6.600	30.058	11.193	1.00	35.26	A
ATOM	467	CG	LEU	A	60	-7.533	31.232	10.938	1.00	34.02	A
ATOM	468	CD1	LEU	A	60	-8.728	30.745	10.139	1.00	32.04	A
ATOM	469	CD2	LEU	A	60	-7.962	31.844	12.269	1.00	32.56	A
ATOM	470	C	LEU	A	60	-4.637	29.060	12.316	1.00	38.86	A
ATOM	471	O	LEU	A	60	-3.589	28.847	11.700	1.00	41.10	A
ATOM	472	N	ASP	A	61	-5.155	28.198	13.185	1.00	38.62	A
ATOM	473	CA	ASP	A	61	-4.489	26.935	13.449	1.00	38.06	A
ATOM	474	CB	ASP	A	61	-3.524	27.086	14.625	1.00	38.08	A
ATOM	475	CG	ASP	A	61	-4.230	27.194	15.955	1.00	39.64	A
ATOM	476	OD1	ASP	A	61	-5.332	27.764	16.012	1.00	37.50	A
ATOM	477	OD2	ASP	A	61	-3.664	26.713	16.956	1.00	43.18	A
ATOM	478	C	ASP	A	61	-5.488	25.816	13.710	1.00	38.77	A
ATOM	479	O	ASP	A	61	-6.703	26.034	13.706	1.00	37.18	A
ATOM	480	N	ASP	A	62	-4.961	24.614	13.920	1.00	38.68	A
ATOM	481	CA	ASP	A	62	-5.786	23.444	14.161	1.00	38.42	A
ATOM	482	CB	ASP	A	62	-4.891	22.226	14.389	1.00	38.33	A
ATOM	483	CG	ASP	A	62	-4.383	21.633	13.083	1.00	40.30	A
ATOM	484	OD1	ASP	A	62	-4.463	22.329	12.041	1.00	40.18	A
ATOM	485	OD2	ASP	A	62	-3.904	20.475	13.091	1.00	41.28	A
ATOM	486	C	ASP	A	62	-6.734	23.648	15.328	1.00	38.64	A
ATOM	487	O	ASP	A	62	-7.915	23.279	15.260	1.00	36.74	A
ATOM	488	N	HIS	A	63	-6.224	24.248	16.398	1.00	38.61	A
ATOM	489	CA	HIS	A	63	-7.061	24.495	17.560	1.00	38.12	A
ATOM	490	CB	HIS	A	63	-6.260	25.238	18.634	1.00	37.05	A
ATOM	491	CG	HIS	A	63	-5.327	24.359	19.407	1.00	38.77	A
ATOM	492	CD2	HIS	A	63	-3.989	24.431	19.606	1.00	41.17	A
ATOM	493	ND1	HIS	A	63	-5.760	23.266	20.126	1.00	39.72	A
ATOM	494	CE1	HIS	A	63	-4.731	22.704	20.736	1.00	40.45	A
ATOM	495	NE2	HIS	A	63	-3.644	23.391	20.437	1.00	41.12	A
ATOM	496	C	HIS	A	63	-8.296	25.304	17.133	1.00	37.44	A
ATOM	497	O	HIS	A	63	-9.435	24.960	17.477	1.00	36.97	A
ATOM	498	N	TYR	A	64	-8.062	26.362	16.362	1.00	34.88	A
ATOM	499	CA	TYR	A	64	-9.139	27.218	15.889	1.00	34.12	A
ATOM	500	CB	TYR	A	64	-8.573	28.320	15.001	1.00	34.58	A
ATOM	501	CG	TYR	A	64	-9.601	29.272	14.430	1.00	34.52	A
ATOM	502	CD1	TYR	A	64	-9.987	30.414	15.129	1.00	34.34	A
ATOM	503	CE1	TYR	A	64	-10.921	31.302	14.594	1.00	34.42	A
ATOM	504	CD2	TYR	A	64	-10.181	29.038	13.179	1.00	33.52	A
ATOM	505	CE2	TYR	A	64	-11.116	29.918	12.638	1.00	31.61	A
ATOM	506	CZ	TYR	A	64	-11.481	31.046	13.347	1.00	33.99	A
ATOM	507	OH	TYR	A	64	-12.401	31.927	12.821	1.00	35.12	A
ATOM	508	C	TYR	A	64	-10.154	26.416	15.092	1.00	34.40	A
ATOM	509	O	TYR	A	64	-11.361	26.496	15.325	1.00	33.66	A
ATOM	510	N	ARG	A	65	-9.650	25.634	14.147	1.00	35.99	A
ATOM	511	CA	ARG	A	65	-10.512	24.840	13.293	1.00	34.97	A
ATOM	512	CB	ARG	A	65	-9.720	24.333	12.092	1.00	33.97	A
ATOM	513	CG	ARG	A	65	-9.368	25.480	11.136	1.00	35.44	A
ATOM	514	CD	ARG	A	65	-8.604	25.003	9.922	1.00	34.18	A
ATOM	515	NE	ARG	A	65	-7.293	24.497	10.298	1.00	35.47	A
ATOM	516	CZ	ARG	A	65	-6.160	25.185	10.194	1.00	34.91	A
ATOM	517	NH1	ARG	A	65	-6.161	26.426	9.714	1.00	33.52	A
ATOM	518	NH2	ARG	A	65	-5.024	24.620	10.573	1.00	35.45	A
ATOM	519	C	ARG	A	65	-11.219	23.716	14.022	1.00	35.23	A
ATOM	520	O	ARG	A	65	-12.325	23.336	13.643	1.00	35.85	A
ATOM	521	N	ASP	A	66	-10.617	23.184	15.077	1.00	34.34	A
ATOM	522	CA	ASP	A	66	-11.309	22.136	15.805	1.00	34.44	A

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ATOM    523  CB  ASP A  66     -10.384  21.462  16.821  1.00 35.81      A
ATOM    524  CG  ASP A  66      -9.218  20.738  16.169  1.00 39.21      A
ATOM    525  OD1 ASP A  66      -9.384  20.198  15.042  1.00 38.83      A
ATOM    526  OD2 ASP A  66      -8.136  20.697  16.800  1.00 40.14      A
ATOM    527  C   ASP A  66     -12.485  22.800  16.528  1.00 35.37      A
ATOM    528  O   ASP A  66     -13.626  22.331  16.451  1.00 34.41      A
ATOM    529  N   VAL A  67     -12.209  23.910  17.214  1.00 34.84      A
ATOM    530  CA  VAL A  67     -13.258  24.613  17.944  1.00 33.04      A
ATOM    531  CB  VAL A  67     -12.681  25.822  18.737  1.00 31.64      A
ATOM    532  CG1 VAL A  67     -13.802  26.673  19.301  1.00 30.39      A
ATOM    533  CG2 VAL A  67     -11.840  25.319  19.886  1.00 30.39      A
ATOM    534  C   VAL A  67     -14.381  25.065  17.007  1.00 32.38      A
ATOM    535  O   VAL A  67     -15.555  25.002  17.372  1.00 32.04      A
ATOM    536  N   LEU A  68     -14.028  25.510  15.804  1.00 30.99      A
ATOM    537  CA  LEU A  68     -15.039  25.936  14.839  1.00 30.39      A
ATOM    538  CB  LEU A  68     -14.379  26.541  13.598  1.00 26.55      A
ATOM    539  CG  LEU A  68     -15.283  26.917  12.418  1.00 23.12      A
ATOM    540  CD1 LEU A  68     -16.462  27.730  12.894  1.00 19.31      A
ATOM    541  CD2 LEU A  68     -14.462  27.692  11.388  1.00 17.19      A
ATOM    542  C   LEU A  68     -15.927  24.756  14.436  1.00 32.11      A
ATOM    543  O   LEU A  68     -17.142  24.896  14.333  1.00 33.68      A
ATOM    544  N   LYS A  69     -15.327  23.589  14.218  1.00 33.49      A
ATOM    545  CA  LYS A  69     -16.101  22.400  13.850  1.00 33.80      A
ATOM    546  CB  LYS A  69     -15.181  21.214  13.576  1.00 35.41      A
ATOM    547  CG  LYS A  69     -14.136  21.441  12.495  1.00 37.40      A
ATOM    548  CD  LYS A  69     -14.542  20.845  11.170  1.00 38.96      A
ATOM    549  CE  LYS A  69     -13.373  20.878  10.193  1.00 44.38      A
ATOM    550  NZ  LYS A  69     -12.159  20.142  10.688  1.00 47.19      A
ATOM    551  C   LYS A  69     -17.041  22.030  14.991  1.00 33.38      A
ATOM    552  O   LYS A  69     -18.181  21.644  14.765  1.00 35.43      A
ATOM    553  N   GLU A  70     -16.561  22.133  16.222  1.00 32.56      A
ATOM    554  CA  GLU A  70     -17.405  21.805  17.367  1.00 33.32      A
ATOM    555  CB  GLU A  70     -16.612  21.935  18.665  1.00 33.49      A
ATOM    556  CG  GLU A  70     -15.673  20.788  18.947  1.00 35.72      A
ATOM    557  CD  GLU A  70     -14.608  21.170  19.952  1.00 42.16      A
ATOM    558  OE1 GLU A  70     -14.932  21.904  20.915  1.00 44.24      A
ATOM    559  OE2 GLU A  70     -13.444  20.739  19.784  1.00 45.79      A
ATOM    560  C   GLU A  70     -18.641  22.705  17.423  1.00 31.90      A
ATOM    561  O   GLU A  70     -19.753  22.234  17.656  1.00 31.99      A
ATOM    562  N   MET A  71     -18.436  23.997  17.199  1.00 30.09      A
ATOM    563  CA  MET A  71     -19.517  24.975  17.226  1.00 29.14      A
ATOM    564  CB  MET A  71     -18.930  26.387  17.157  1.00 29.66      A
ATOM    565  CG  MET A  71     -17.988  26.727  18.298  1.00 26.83      A
ATOM    566  SD  MET A  71     -17.212  28.329  18.064  1.00 30.19      A
ATOM    567  CE  MET A  71     -18.551  29.368  18.390  1.00 29.16      A
ATOM    568  C   MET A  71     -20.510  24.773  16.082  1.00 28.58      A
ATOM    569  O   MET A  71     -21.718  24.884  16.265  1.00 27.73      A
ATOM    570  N   LYS A  72     -19.993  24.489  14.894  1.00 28.96      A
ATOM    571  CA  LYS A  72     -20.846  24.260  13.735  1.00 28.91      A
ATOM    572  CB  LYS A  72     -19.992  23.962  12.495  1.00 28.81      A
ATOM    573  CG  LYS A  72     -19.135  25.135  12.032  1.00 28.90      A
ATOM    574  CD  LYS A  72     -19.504  25.595  10.636  1.00 27.75      A
ATOM    575  CE  LYS A  72     -19.027  24.619   9.585  1.00 27.08      A
ATOM    576  NZ  LYS A  72     -19.275  25.117   8.206  1.00 27.16      A
ATOM    577  C   LYS A  72     -21.783  23.090  14.008  1.00 28.10      A
ATOM    578  O   LYS A  72     -22.957  23.127  13.652  1.00 28.97      A
ATOM    579  N   ALA A  73     -21.253  22.060  14.655  1.00 28.11      A
ATOM    580  CA  ALA A  73     -22.015  20.865  14.972  1.00 27.92      A
ATOM    581  CB  ALA A  73     -21.140  19.886  15.716  1.00 26.94      A
ATOM    582  C   ALA A  73     -23.242  21.198  15.796  1.00 28.41      A
ATOM    583  O   ALA A  73     -24.317  20.627  15.593  1.00 29.15      A
ATOM    584  N   LYS A  74     -23.086  22.124  16.728  1.00 27.93      A
ATOM    585  CA  LYS A  74     -24.206  22.518  17.561  1.00 30.24      A
ATOM    586  CB  LYS A  74     -23.694  23.250  18.797  1.00 30.69      A
ATOM    587  CG  LYS A  74     -22.925  22.340  19.724  1.00 30.29      A
ATOM    588  CD  LYS A  74     -22.522  23.020  21.004  1.00 35.53      A
ATOM    589  CE  LYS A  74     -22.040  21.980  22.000  1.00 40.13      A
ATOM    590  NZ  LYS A  74     -23.080  20.899  22.193  1.00 44.24      A
ATOM    591  C   LYS A  74     -25.158  23.404  16.767  1.00 31.80      A
ATOM    592  O   LYS A  74     -26.378  23.319  16.916  1.00 33.07      A
ATOM    593  N   ALA A  75     -24.585  24.246  15.914  1.00 32.61      A
ATOM    594  CA  ALA A  75     -25.358  25.152  15.081  1.00 33.15      A
ATOM    595  CB  ALA A  75     -24.433  25.956  14.205  1.00 33.84      A
ATOM    596  C   ALA A  75     -26.323  24.365  14.221  1.00 33.75      A
ATOM    597  O   ALA A  75     -27.432  24.820  13.951  1.00 34.79      A
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ATOM    598  N   SER A  76     -25.889  23.180  13.799  1.00 33.09      A
ATOM    599  CA  SER A  76     -26.691  22.294  12.963  1.00 32.33      A
ATOM    600  CB  SER A  76     -25.932  21.000  12.701  1.00 33.89      A
ATOM    601  OG  SER A  76     -24.733  21.260  12.003  1.00 36.21      A
ATOM    602  C   SER A  76     -28.041  21.941  13.563  1.00 31.87      A
ATOM    603  O   SER A  76     -28.992  21.656  12.838  1.00 31.72      A
ATOM    604  N   THR A  77     -28.131  21.959  14.886  1.00 30.84      A
ATOM    605  CA  THR A  77     -29.376  21.600  15.544  1.00 29.98      A
ATOM    606  CB  THR A  77     -29.146  21.224  17.013  1.00 30.82      A
ATOM    607  OG1 THR A  77     -28.892  22.417  17.766  1.00 32.43      A
ATOM    608  CG2 THR A  77     -27.972  20.263  17.155  1.00 27.15      A
ATOM    609  C   THR A  77     -30.412  22.711  15.521  1.00 29.60      A
ATOM    610  O   THR A  77     -31.578  22.479  15.831  1.00 29.80      A
ATOM    611  N   VAL A  78     -29.998  23.912  15.148  1.00 29.24      A
ATOM    612  CA  VAL A  78     -30.914  25.046  15.133  1.00 29.51      A
ATOM    613  CB  VAL A  78     -30.132  26.359  15.302  1.00 27.83      A
ATOM    614  CG1 VAL A  78     -31.070  27.509  15.436  1.00 26.87      A
ATOM    615  CG2 VAL A  78     -29.245  26.273  16.512  1.00 29.86      A
ATOM    616  C   VAL A  78     -31.805  25.174  13.891  1.00 31.13      A
ATOM    617  O   VAL A  78     -31.385  24.873  12.767  1.00 29.85      A
ATOM    618  N   LYS A  79     -33.035  25.636  14.115  1.00 32.34      A
ATOM    619  CA  LYS A  79     -34.008  25.859  13.051  1.00 35.12      A
ATOM    620  CB  LYS A  79     -35.153  24.851  13.138  1.00 37.13      A
ATOM    621  CG  LYS A  79     -36.201  25.027  12.045  1.00 42.40      A
ATOM    622  CD  LYS A  79     -37.150  23.852  12.037  1.00 49.08      A
ATOM    623  CE  LYS A  79     -37.964  23.745  10.752  1.00 52.10      A
ATOM    624  NZ  LYS A  79     -38.553  22.353  10.647  1.00 55.54      A
ATOM    625  C   LYS A  79     -34.567  27.261  13.220  1.00 34.97      A
ATOM    626  O   LYS A  79     -35.417  27.481  14.074  1.00 36.52      A
ATOM    627  N   ALA A  80     -34.099  28.202  12.405  1.00 35.24      A
ATOM    628  CA  ALA A  80     -34.539  29.593  12.498  1.00 33.96      A
ATOM    629  CB  ALA A  80     -33.356  30.513  12.273  1.00 33.53      A
ATOM    630  C   ALA A  80     -35.674  29.970  11.550  1.00 34.72      A
ATOM    631  O   ALA A  80     -35.701  29.563  10.390  1.00 34.86      A
ATOM    632  N   LYS A  81     -36.605  30.771  12.060  1.00 36.28      A
ATOM    633  CA  LYS A  81     -37.758  31.221  11.292  1.00 37.15      A
ATOM    634  CB  LYS A  81     -39.016  31.260  12.169  1.00 40.69      A
ATOM    635  CG  LYS A  81     -38.926  32.274  13.313  1.00 46.95      A
ATOM    636  CD  LYS A  81     -40.230  32.415  14.102  1.00 51.15      A
ATOM    637  CE  LYS A  81     -40.052  33.415  15.256  1.00 55.56      A
ATOM    638  NZ  LYS A  81     -41.298  33.701  16.022  1.00 56.00      A
ATOM    639  C   LYS A  81     -37.505  32.612  10.750  1.00 36.76      A
ATOM    640  O   LYS A  81     -36.785  33.409  11.341  1.00 38.37      A
ATOM    641  N   LEU A  82     -38.113  32.891   9.611  1.00 36.25      A
ATOM    642  CA  LEU A  82     -38.003  34.181   8.953  1.00 34.86      A
ATOM    643  CB  LEU A  82     -38.266  33.980   7.464  1.00 32.98      A
ATOM    644  CG  LEU A  82     -38.155  35.101   6.444  1.00 33.02      A
ATOM    645  CD1 LEU A  82     -36.721  35.597   6.293  1.00 33.62      A
ATOM    646  CD2 LEU A  82     -38.646  34.540   5.129  1.00 32.82      A
ATOM    647  C   LEU A  82     -39.101  35.023   9.590  1.00 35.63      A
ATOM    648  O   LEU A  82     -40.212  34.540   9.785  1.00 37.27      A
ATOM    649  N   LEU A  83     -38.809  36.268   9.931  1.00 35.05      A
ATOM    650  CA  LEU A  83     -39.831  37.100  10.553  1.00 35.13      A
ATOM    651  CB  LEU A  83     -39.180  38.148  11.471  1.00 32.50      A
ATOM    652  CG  LEU A  83     -39.220  37.979  13.003  1.00 29.44      A
ATOM    653  CD1 LEU A  83     -38.904  36.568  13.421  1.00 27.25      A
ATOM    654  CD2 LEU A  83     -38.226  38.933  13.627  1.00 28.16      A
ATOM    655  C   LEU A  83     -40.692  37.785   9.498  1.00 36.97      A
ATOM    656  O   LEU A  83     -40.230  38.066   8.394  1.00 39.02      A
ATOM    657  N   SER A  84     -41.953  38.030   9.836  1.00 37.88      A
ATOM    658  CA  SER A  84     -42.879  38.709   8.937  1.00 40.06      A
ATOM    659  CB  SER A  84     -44.301  38.543   9.444  1.00 40.19      A
ATOM    660  OG  SER A  84     -44.452  39.167  10.713  1.00 41.35      A
ATOM    661  C   SER A  84     -42.532  40.193   8.969  1.00 43.08      A
ATOM    662  O   SER A  84     -41.944  40.668   9.946  1.00 45.20      A
ATOM    663  N   ILE A  85     -42.893  40.938   7.929  1.00 43.78      A
ATOM    664  CA  ILE A  85     -42.594  42.363   7.951  1.00 44.94      A
ATOM    665  CB  ILE A  85     -43.145  43.097   6.721  1.00 43.29      A
ATOM    666  CG2 ILE A  85     -43.026  44.595   6.911  1.00 42.17      A
ATOM    667  CG1 ILE A  85     -42.345  42.692   5.487  1.00 45.02      A
ATOM    668  CD1 ILE A  85     -42.647  43.515   4.256  1.00 45.82      A
ATOM    669  C   ILE A  85     -43.200  42.979   9.205  1.00 46.61      A
ATOM    670  O   ILE A  85     -42.600  43.851   9.827  1.00 47.68      A
ATOM    671  N   GLU A  86     -44.382  42.508   9.587  1.00 47.97      A
ATOM    672  CA  GLU A  86     -45.049  43.035  10.772  1.00 49.52      A
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ATOM	673	CB	GLU	A	86	-46.408	42.350	10.975	1.00	53.54	A
ATOM	674	CG	GLU	A	86	-47.485	43.248	11.596	1.00	58.20	A
ATOM	675	CD	GLU	A	86	-48.282	42.557	12.704	1.00	63.48	A
ATOM	676	OE1	GLU	A	86	-49.336	43.102	13.111	1.00	65.52	A
ATOM	677	OE2	GLU	A	86	-47.853	41.478	13.182	1.00	65.11	A
ATOM	678	C	GLU	A	86	-44.167	42.818	12.001	1.00	48.04	A
ATOM	679	O	GLU	A	86	-43.786	43.777	12.672	1.00	46.46	A
ATOM	680	N	GLU	A	87	-43.836	41.556	12.278	1.00	47.41	A
ATOM	681	CA	GLU	A	87	-42.995	41.193	13.422	1.00	46.34	A
ATOM	682	CB	GLU	A	87	-42.615	39.708	13.350	1.00	47.94	A
ATOM	683	CG	GLU	A	87	-43.756	38.721	13.516	1.00	51.27	A
ATOM	684	CD	GLU	A	87	-43.312	37.273	13.294	1.00	55.09	A
ATOM	685	OE1	GLU	A	87	-42.878	36.941	12.167	1.00	56.59	A
ATOM	686	OE2	GLU	A	87	-43.391	36.461	14.245	1.00	56.58	A
ATOM	687	C	GLU	A	87	-41.709	42.033	13.507	1.00	44.49	A
ATOM	688	O	GLU	A	87	-41.344	42.511	14.581	1.00	43.71	A
ATOM	689	N	ALA	A	88	-41.023	42.201	12.377	1.00	42.29	A
ATOM	690	CA	ALA	A	88	-39.784	42.968	12.347	1.00	41.01	A
ATOM	691	CB	ALA	A	88	-39.077	42.764	11.033	1.00	39.96	A
ATOM	692	C	ALA	A	88	-40.038	44.445	12.570	1.00	40.89	A
ATOM	693	O	ALA	A	88	-39.215	45.147	13.151	1.00	41.63	A
ATOM	694	N	CYS	A	89	-41.180	44.925	12.104	1.00	40.50	A
ATOM	695	CA	CYS	A	89	-41.512	46.323	12.281	1.00	40.64	A
ATOM	696	CB	CYS	A	89	-42.756	46.671	11.462	1.00	39.94	A
ATOM	697	SG	CYS	A	89	-42.469	46.891	9.693	1.00	39.41	A
ATOM	698	C	CYS	A	89	-41.760	46.630	13.761	1.00	41.47	A
ATOM	699	O	CYS	A	89	-41.312	47.653	14.286	1.00	40.82	A
ATOM	700	N	LYS	A	90	-42.467	45.728	14.429	1.00	40.66	A
ATOM	701	CA	LYS	A	90	-42.805	45.912	15.827	1.00	42.24	A
ATOM	702	CB	LYS	A	90	-43.816	44.844	16.252	1.00	44.49	A
ATOM	703	CG	LYS	A	90	-44.464	45.114	17.595	1.00	52.45	A
ATOM	704	CD	LYS	A	90	-45.219	43.901	18.134	1.00	56.00	A
ATOM	705	CE	LYS	A	90	-45.822	44.201	19.504	1.00	56.83	A
ATOM	706	NZ	LYS	A	90	-46.473	42.999	20.095	1.00	58.77	A
ATOM	707	C	LYS	A	90	-41.562	45.868	16.717	1.00	42.66	A
ATOM	708	O	LYS	A	90	-41.615	46.195	17.905	1.00	43.23	A
ATOM	709	N	LEU	A	91	-40.440	45.456	16.142	1.00	43.07	A
ATOM	710	CA	LEU	A	91	-39.196	45.393	16.891	1.00	41.90	A
ATOM	711	CB	LEU	A	91	-38.303	44.271	16.353	1.00	41.02	A
ATOM	712	CG	LEU	A	91	-38.661	42.830	16.741	1.00	41.67	A
ATOM	713	CD1	LEU	A	91	-37.797	41.855	15.945	1.00	42.24	A
ATOM	714	CD2	LEU	A	91	-38.452	42.621	18.237	1.00	38.51	A
ATOM	715	C	LEU	A	91	-38.471	46.728	16.789	1.00	42.19	A
ATOM	716	O	LEU	A	91	-37.689	47.087	17.658	1.00	43.73	A
ATOM	717	N	THR	A	92	-38.744	47.473	15.728	1.00	42.51	A
ATOM	718	CA	THR	A	92	-38.096	48.756	15.523	1.00	42.73	A
ATOM	719	CB	THR	A	92	-38.569	49.381	14.214	1.00	41.90	A
ATOM	720	OG1	THR	A	92	-38.465	48.412	13.166	1.00	40.24	A
ATOM	721	CG2	THR	A	92	-37.732	50.598	13.864	1.00	40.97	A
ATOM	722	C	THR	A	92	-38.382	49.728	16.662	1.00	45.91	A
ATOM	723	O	THR	A	92	-39.537	49.966	17.015	1.00	47.25	A
ATOM	724	N	PRO	A	93	-37.328	50.293	17.273	1.00	48.17	A
ATOM	725	CD	PRO	A	93	-35.894	49.975	17.173	1.00	48.36	A
ATOM	726	CA	PRO	A	93	-37.576	51.238	18.367	1.00	48.74	A
ATOM	727	CB	PRO	A	93	-36.175	51.546	18.890	1.00	47.61	A
ATOM	728	CG	PRO	A	93	-35.409	50.306	18.561	1.00	47.80	A
ATOM	729	C	PRO	A	93	-38.270	52.487	17.829	1.00	49.72	A
ATOM	730	O	PRO	A	93	-37.927	52.986	16.755	1.00	47.12	A
ATOM	731	N	PRO	A	94	-39.259	53.001	18.575	1.00	51.89	A
ATOM	732	CD	PRO	A	94	-39.757	52.453	19.853	1.00	53.25	A
ATOM	733	CA	PRO	A	94	-40.016	54.196	18.194	1.00	52.73	A
ATOM	734	CB	PRO	A	94	-40.860	54.474	19.435	1.00	51.04	A
ATOM	735	CG	PRO	A	94	-41.117	53.099	19.973	1.00	51.82	A
ATOM	736	C	PRO	A	94	-39.131	55.391	17.816	1.00	53.43	A
ATOM	737	O	PRO	A	94	-39.508	56.215	16.984	1.00	54.96	A
ATOM	738	N	HIS	A	95	-37.953	55.490	18.414	1.00	52.36	A
ATOM	739	CA	HIS	A	95	-37.090	56.613	18.105	1.00	52.42	A
ATOM	740	CB	HIS	A	95	-36.631	57.275	19.401	1.00	56.67	A
ATOM	741	CG	HIS	A	95	-37.753	57.872	20.191	1.00	60.74	A
ATOM	742	CD2	HIS	A	95	-38.852	58.559	19.795	1.00	61.99	A
ATOM	743	ND1	HIS	A	95	-37.840	57.766	21.564	1.00	61.80	A
ATOM	744	CE1	HIS	A	95	-38.947	58.357	21.978	1.00	63.61	A
ATOM	745	NE2	HIS	A	95	-39.580	58.845	20.925	1.00	63.95	A
ATOM	746	C	HIS	A	95	-35.894	56.239	17.250	1.00	51.12	A
ATOM	747	O	HIS	A	95	-34.940	57.008	17.143	1.00	50.27	A

ATOM	748	N	SER	A	96	-35.955	55.058	16.639	1.00	48.95	A
ATOM	749	CA	SER	A	96	-34.887	54.575	15.767	1.00	45.53	A
ATOM	750	CB	SER	A	96	-35.294	53.232	15.153	1.00	44.93	A
ATOM	751	OG	SER	A	96	-34.267	52.693	14.344	1.00	44.67	A
ATOM	752	C	SER	A	96	-34.668	55.616	14.673	1.00	44.83	A
ATOM	753	O	SER	A	96	-35.611	56.272	14.240	1.00	44.17	A
ATOM	754	N	ALA	A	97	-33.430	55.779	14.228	1.00	44.27	A
ATOM	755	CA	ALA	A	97	-33.141	56.766	13.194	1.00	44.29	A
ATOM	756	CB	ALA	A	97	-31.672	56.743	12.852	1.00	44.37	A
ATOM	757	C	ALA	A	97	-33.963	56.533	11.938	1.00	45.78	A
ATOM	758	O	ALA	A	97	-34.003	55.427	11.397	1.00	45.83	A
ATOM	759	N	LYS	A	98	-34.611	57.591	11.467	1.00	47.33	A
ATOM	760	CA	LYS	A	98	-35.435	57.512	10.270	1.00	47.46	A
ATOM	761	CB	LYS	A	98	-36.131	58.846	10.021	1.00	48.67	A
ATOM	762	CG	LYS	A	98	-35.160	59.989	9.783	1.00	50.30	A
ATOM	763	CD	LYS	A	98	-35.858	61.195	9.173	1.00	52.84	A
ATOM	764	CE	LYS	A	98	-34.908	62.382	9.069	1.00	54.52	A
ATOM	765	NZ	LYS	A	98	-35.558	63.570	8.444	1.00	56.51	A
ATOM	766	C	LYS	A	98	-34.610	57.158	9.045	1.00	47.24	A
ATOM	767	O	LYS	A	98	-33.386	57.312	9.031	1.00	47.03	A
ATOM	768	N	SER	A	99	-35.307	56.697	8.015	1.00	47.52	A
ATOM	769	CA	SER	A	99	-34.697	56.319	6.749	1.00	47.89	A
ATOM	770	CB	SER	A	99	-35.601	55.326	6.013	1.00	49.40	A
ATOM	771	OG	SER	A	99	-35.212	55.189	4.656	1.00	50.04	A
ATOM	772	C	SER	A	99	-34.507	57.544	5.877	1.00	47.21	A
ATOM	773	O	SER	A	99	-35.202	58.542	6.045	1.00	47.95	A
ATOM	774	N	LYS	A	100	-33.568	57.478	4.943	1.00	46.96	A
ATOM	775	CA	LYS	A	100	-33.362	58.608	4.054	1.00	47.74	A
ATOM	776	CB	LYS	A	100	-31.896	58.702	3.613	1.00	47.01	A
ATOM	777	CG	LYS	A	100	-31.398	57.546	2.753	1.00	49.83	A
ATOM	778	CD	LYS	A	100	-29.877	57.632	2.495	1.00	50.89	A
ATOM	779	CE	LYS	A	100	-29.072	57.570	3.807	1.00	50.89	A
ATOM	780	NZ	LYS	A	100	-27.593	57.658	3.612	1.00	47.61	A
ATOM	781	C	LYS	A	100	-34.275	58.410	2.849	1.00	48.48	A
ATOM	782	O	LYS	A	100	-33.987	58.893	1.757	1.00	50.52	A
ATOM	783	N	PHE	A	101	-35.389	57.712	3.060	1.00	47.25	A
ATOM	784	CA	PHE	A	101	-36.331	57.439	1.984	1.00	47.34	A
ATOM	785	CB	PHE	A	101	-36.290	55.947	1.638	1.00	47.47	A
ATOM	786	CG	PHE	A	101	-34.966	55.497	1.078	1.00	48.04	A
ATOM	787	CD1	PHE	A	101	-34.556	55.900	-0.186	1.00	47.72	A
ATOM	788	CD2	PHE	A	101	-34.112	54.700	1.828	1.00	48.48	A
ATOM	789	CE1	PHE	A	101	-33.311	55.521	-0.691	1.00	47.39	A
ATOM	790	CE2	PHE	A	101	-32.865	54.319	1.326	1.00	48.25	A
ATOM	791	CZ	PHE	A	101	-32.466	54.732	0.065	1.00	46.42	A
ATOM	792	C	PHE	A	101	-37.773	57.876	2.263	1.00	48.26	A
ATOM	793	O	PHE	A	101	-38.731	57.235	1.813	1.00	47.95	A
ATOM	794	N	GLY	A	102	-37.925	58.962	3.014	1.00	48.98	A
ATOM	795	CA	GLY	A	102	-39.248	59.485	3.304	1.00	49.73	A
ATOM	796	C	GLY	A	102	-40.134	58.770	4.309	1.00	50.55	A
ATOM	797	O	GLY	A	102	-41.355	58.684	4.115	1.00	52.78	A
ATOM	798	N	TYR	A	103	-39.544	58.252	5.379	1.00	48.36	A
ATOM	799	CA	TYR	A	103	-40.319	57.585	6.418	1.00	46.79	A
ATOM	800	CB	TYR	A	103	-40.993	56.320	5.878	1.00	45.56	A
ATOM	801	CG	TYR	A	103	-40.054	55.188	5.546	1.00	45.65	A
ATOM	802	CD1	TYR	A	103	-39.722	54.221	6.502	1.00	45.22	A
ATOM	803	CE1	TYR	A	103	-38.864	53.164	6.189	1.00	43.86	A
ATOM	804	CD2	TYR	A	103	-39.499	55.071	4.270	1.00	45.39	A
ATOM	805	CE2	TYR	A	103	-38.640	54.019	3.951	1.00	44.76	A
ATOM	806	CZ	TYR	A	103	-38.334	53.073	4.913	1.00	43.93	A
ATOM	807	OH	TYR	A	103	-37.514	52.031	4.585	1.00	45.33	A
ATOM	808	C	TYR	A	103	-39.390	57.262	7.573	1.00	46.66	A
ATOM	809	O	TYR	A	103	-38.176	57.158	7.385	1.00	47.85	A
ATOM	810	N	GLY	A	104	-39.955	57.124	8.768	1.00	45.08	A
ATOM	811	CA	GLY	A	104	-39.137	56.844	9.927	1.00	44.07	A
ATOM	812	C	GLY	A	104	-39.694	55.782	10.842	1.00	45.32	A
ATOM	813	O	GLY	A	104	-40.698	55.131	10.538	1.00	45.14	A
ATOM	814	N	ALA	A	105	-39.023	55.621	11.975	1.00	46.02	A
ATOM	815	CA	ALA	A	105	-39.393	54.636	12.978	1.00	47.89	A
ATOM	816	CB	ALA	A	105	-38.735	54.984	14.299	1.00	47.54	A
ATOM	817	C	ALA	A	105	-40.895	54.511	13.170	1.00	49.00	A
ATOM	818	O	ALA	A	105	-41.456	53.426	13.030	1.00	49.36	A
ATOM	819	N	LYS	A	106	-41.539	55.627	13.491	1.00	50.55	A
ATOM	820	CA	LYS	A	106	-42.975	55.641	13.723	1.00	52.19	A
ATOM	821	CB	LYS	A	106	-43.443	57.065	14.032	1.00	55.42	A
ATOM	822	CG	LYS	A	106	-44.563	57.155	15.073	1.00	59.28	A

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ATOM    823  CD  LYS A 106     -44.013  57.333  16.506  1.00 63.84      A
ATOM    824  CE  LYS A 106     -43.285  56.091  17.039  1.00 65.08      A
ATOM    825  NZ  LYS A 106     -44.213  54.954  17.355  1.00 67.21      A
ATOM    826  C   LYS A 106     -43.755  55.092  12.531  1.00 51.73      A
ATOM    827  O   LYS A 106     -44.707  54.342  12.707  1.00 52.54      A
ATOM    828  N   ASP A 107     -43.359  55.467  11.321  1.00 51.18      A
ATOM    829  CA  ASP A 107     -44.040  54.986  10.123  1.00 51.31      A
ATOM    830  CB  ASP A 107     -43.452  55.653   8.893  1.00 53.86      A
ATOM    831  CG  ASP A 107     -43.427  57.150   9.012  1.00 54.58      A
ATOM    832  OD1 ASP A 107     -44.513  57.750   9.165  1.00 55.22      A
ATOM    833  OD2 ASP A 107     -42.319  57.720   8.956  1.00 55.06      A
ATOM    834  C   ASP A 107     -43.860  53.483   9.999  1.00 51.22      A
ATOM    835  O   ASP A 107     -44.758  52.760   9.555  1.00 49.68      A
ATOM    836  N   VAL A 108     -42.672  53.030  10.377  1.00 50.31      A
ATOM    837  CA  VAL A 108     -42.340  51.621  10.341  1.00 49.62      A
ATOM    838  CB  VAL A 108     -40.836  51.412  10.662  1.00 49.80      A
ATOM    839  CG1 VAL A 108     -40.557  49.947  10.993  1.00 51.24      A
ATOM    840  CG2 VAL A 108     -39.997  51.843   9.477  1.00 48.38      A
ATOM    841  C   VAL A 108     -43.196  50.859  11.354  1.00 49.24      A
ATOM    842  O   VAL A 108     -43.933  49.939  10.991  1.00 47.87      A
ATOM    843  N   ARG A 109     -43.098  51.247  12.623  1.00 49.52      A
ATOM    844  CA  ARG A 109     -43.851  50.585  13.689  1.00 50.84      A
ATOM    845  CB  ARG A 109     -43.681  51.328  15.018  1.00 49.85      A
ATOM    846  CG  ARG A 109     -42.270  51.356  15.586  1.00 50.79      A
ATOM    847  CD  ARG A 109     -42.278  51.914  17.008  1.00 51.54      A
ATOM    848  NE  ARG A 109     -43.246  51.194  17.832  1.00 52.15      A
ATOM    849  CZ  ARG A 109     -43.129  49.914  18.167  1.00 51.75      A
ATOM    850  NH1 ARG A 109     -42.077  49.219  17.758  1.00 53.08      A
ATOM    851  NH2 ARG A 109     -44.075  49.318  18.877  1.00 50.66      A
ATOM    852  C   ARG A 109     -45.332  50.532  13.358  1.00 51.28      A
ATOM    853  O   ARG A 109     -46.066  49.660  13.836  1.00 49.24      A
ATOM    854  N   ASN A 110     -45.742  51.473  12.514  1.00 52.93      A
ATOM    855  CA  ASN A 110     -47.128  51.639  12.108  1.00 53.78      A
ATOM    856  CB  ASN A 110     -47.424  53.129  12.043  1.00 54.63      A
ATOM    857  CG  ASN A 110     -48.860  53.440  12.333  1.00 58.65      A
ATOM    858  OD1 ASN A 110     -49.710  53.413  11.435  1.00 60.96      A
ATOM    859  ND2 ASN A 110     -49.157  53.720  13.606  1.00 58.11      A
ATOM    860  C   ASN A 110     -47.521  50.985  10.791  1.00 54.15      A
ATOM    861  O   ASN A 110     -48.568  51.298  10.232  1.00 55.96      A
ATOM    862  N   LEU A 111     -46.691  50.075  10.299  1.00 54.19      A
ATOM    863  CA  LEU A 111     -46.966  49.394   9.038  1.00 52.61      A
ATOM    864  CB  LEU A 111     -47.983  48.276   9.265  1.00 51.25      A
ATOM    865  CG  LEU A 111     -47.523  47.199  10.252  1.00 52.28      A
ATOM    866  CD1 LEU A 111     -48.599  46.143  10.403  1.00 52.43      A
ATOM    867  CD2 LEU A 111     -46.233  46.566   9.760  1.00 53.12      A
ATOM    868  C   LEU A 111     -47.465  50.345   7.949  1.00 51.74      A
ATOM    869  O   LEU A 111     -48.265  49.953   7.098  1.00 52.16      A
ATOM    870  N   SER A 112     -46.988  51.589   7.972  1.00 50.20      A
ATOM    871  CA  SER A 112     -47.396  52.575   6.977  1.00 50.65      A
ATOM    872  CB  SER A 112     -46.690  53.908   7.204  1.00 49.79      A
ATOM    873  OG  SER A 112     -45.682  54.109   6.226  1.00 49.64      A
ATOM    874  C   SER A 112     -47.064  52.079   5.577  1.00 52.26      A
ATOM    875  O   SER A 112     -46.008  51.495   5.342  1.00 53.25      A
ATOM    876  N   SER A 113     -47.968  52.334   4.644  1.00 54.10      A
ATOM    877  CA  SER A 113     -47.780  51.902   3.271  1.00 54.71      A
ATOM    878  CB  SER A 113     -48.856  52.507   2.378  1.00 56.09      A
ATOM    879  OG  SER A 113     -48.621  52.146   1.031  1.00 58.71      A
ATOM    880  C   SER A 113     -46.414  52.242   2.692  1.00 54.45      A
ATOM    881  O   SER A 113     -45.705  51.364   2.209  1.00 55.45      A
ATOM    882  N   ARG A 114     -46.033  53.510   2.726  1.00 53.40      A
ATOM    883  CA  ARG A 114     -44.750  53.862   2.155  1.00 52.34      A
ATOM    884  CB  ARG A 114     -44.474  55.354   2.305  1.00 53.21      A
ATOM    885  CG  ARG A 114     -43.105  55.744   1.775  1.00 56.33      A
ATOM    886  CD  ARG A 114     -42.959  57.235   1.672  1.00 59.58      A
ATOM    887  NE  ARG A 114     -43.923  57.774   0.727  1.00 63.65      A
ATOM    888  CZ  ARG A 114     -44.211  59.064   0.618  1.00 66.13      A
ATOM    889  NH1 ARG A 114     -43.601  59.946   1.405  1.00 66.05      A
ATOM    890  NH2 ARG A 114     -45.111  59.467  -0.274  1.00 66.62      A
ATOM    891  C   ARG A 114     -43.592  53.065   2.742  1.00 51.32      A
ATOM    892  O   ARG A 114     -42.836  52.440   1.997  1.00 50.75      A
ATOM    893  N   ALA A 115     -43.458  53.079   4.069  1.00 49.91      A
ATOM    894  CA  ALA A 115     -42.365  52.366   4.736  1.00 48.07      A
ATOM    895  CB  ALA A 115     -42.521  52.438   6.246  1.00 48.12      A
ATOM    896  C   ALA A 115     -42.327  50.921   4.297  1.00 46.63      A
ATOM    897  O   ALA A 115     -41.287  50.414   3.873  1.00 45.57      A
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ATOM    898  N   VAL A 116     -43.477  50.269   4.396  1.00 44.97      A
ATOM    899  CA  VAL A 116     -43.602  48.876   4.012  1.00 44.62      A
ATOM    900  CB  VAL A 116     -45.054  48.396   4.178  1.00 42.67      A
ATOM    901  CG1 VAL A 116     -45.190  46.963   3.696  1.00 41.85      A
ATOM    902  CG2 VAL A 116     -45.457  48.496   5.644  1.00 40.93      A
ATOM    903  C   VAL A 116     -43.124  48.586   2.589  1.00 45.45      A
ATOM    904  O   VAL A 116     -42.387  47.629   2.371  1.00 45.72      A
ATOM    905  N   ASN A 117     -43.523  49.404   1.621  1.00 47.29      A
ATOM    906  CA  ASN A 117     -43.103  49.170   0.235  1.00 47.64      A
ATOM    907  CB  ASN A 117     -43.758  50.173  -0.710  1.00 48.86      A
ATOM    908  CG  ASN A 117     -45.263  50.088  -0.686  1.00 50.80      A
ATOM    909  OD1 ASN A 117     -45.838  49.029  -0.399  1.00 51.16      A
ATOM    910  ND2 ASN A 117     -45.920  51.201  -1.000  1.00 52.73      A
ATOM    911  C   ASN A 117     -41.593  49.224   0.049  1.00 47.63      A
ATOM    912  O   ASN A 117     -41.023  48.397  -0.675  1.00 45.83      A
ATOM    913  N   HIS A 118     -40.951  50.205   0.685  1.00 47.28      A
ATOM    914  CA  HIS A 118     -39.503  50.337   0.596  1.00 46.77      A
ATOM    915  CB  HIS A 118     -39.040  51.638   1.256  1.00 49.56      A
ATOM    916  CG  HIS A 118     -39.420  52.866   0.484  1.00 55.11      A
ATOM    917  CD2 HIS A 118     -38.660  53.806  -0.130  1.00 55.94      A
ATOM    918  ND1 HIS A 118     -40.733  53.234   0.263  1.00 56.56      A
ATOM    919  CE1 HIS A 118     -40.763  54.348  -0.449  1.00 55.04      A
ATOM    920  NE2 HIS A 118     -39.519  54.716  -0.700  1.00 55.49      A
ATOM    921  C   HIS A 118     -38.853  49.122   1.255  1.00 44.53      A
ATOM    922  O   HIS A 118     -37.883  48.576   0.734  1.00 43.99      A
ATOM    923  N   ILE A 119     -39.396  48.689   2.388  1.00 41.53      A
ATOM    924  CA  ILE A 119     -38.864  47.513   3.063  1.00 40.84      A
ATOM    925  CB  ILE A 119     -39.691  47.178   4.335  1.00 38.92      A
ATOM    926  CG2 ILE A 119     -39.311  45.811   4.875  1.00 37.80      A
ATOM    927  CG1 ILE A 119     -39.434  48.234   5.408  1.00 38.11      A
ATOM    928  CD1 ILE A 119     -40.285  48.070   6.648  1.00 37.75      A
ATOM    929  C   ILE A 119     -38.914  46.342   2.065  1.00 41.47      A
ATOM    930  O   ILE A 119     -37.904  45.661   1.827  1.00 40.57      A
ATOM    931  N   ARG A 120     -40.093  46.136   1.476  1.00 41.29      A
ATOM    932  CA  ARG A 120     -40.311  45.084   0.485  1.00 41.26      A
ATOM    933  CB  ARG A 120     -41.676  45.246  -0.198  1.00 44.76      A
ATOM    934  CG  ARG A 120     -42.902  45.254   0.712  1.00 50.36      A
ATOM    935  CD  ARG A 120     -43.463  43.859   0.939  1.00 55.05      A
ATOM    936  NE  ARG A 120     -44.722  43.891   1.688  1.00 60.39      A
ATOM    937  CZ  ARG A 120     -45.859  44.419   1.234  1.00 62.52      A
ATOM    938  NH1 ARG A 120     -45.907  44.966   0.021  1.00 61.93      A
ATOM    939  NH2 ARG A 120     -46.951  44.401   1.995  1.00 63.14      A
ATOM    940  C   ARG A 120     -39.243  45.155  -0.600  1.00 39.14      A
ATOM    941  O   ARG A 120     -38.632  44.146  -0.953  1.00 38.64      A
ATOM    942  N   SER A 121     -39.026  46.355  -1.128  1.00 36.67      A
ATOM    943  CA  SER A 121     -38.053  46.535  -2.194  1.00 36.19      A
ATOM    944  CB  SER A 121     -38.190  47.926  -2.828  1.00 35.45      A
ATOM    945  OG  SER A 121     -37.592  48.912  -2.014  1.00 39.05      A
ATOM    946  C   SER A 121     -36.626  46.319  -1.719  1.00 34.14      A
ATOM    947  O   SER A 121     -35.808  45.792  -2.469  1.00 35.41      A
ATOM    948  N   VAL A 122     -36.323  46.726  -0.488  1.00 32.07      A
ATOM    949  CA  VAL A 122     -34.980  46.540   0.060  1.00 30.76      A
ATOM    950  CB  VAL A 122     -34.840  47.192   1.446  1.00 30.38      A
ATOM    951  CG1 VAL A 122     -33.713  46.533   2.240  1.00 29.78      A
ATOM    952  CG2 VAL A 122     -34.540  48.655   1.286  1.00 27.27      A
ATOM    953  C   VAL A 122     -34.710  45.045   0.187  1.00 32.04      A
ATOM    954  O   VAL A 122     -33.604  44.564  -0.105  1.00 31.53      A
ATOM    955  N   TRP A 123     -35.737  44.317   0.620  1.00 31.75      A
ATOM    956  CA  TRP A 123     -35.645  42.877   0.776  1.00 31.04      A
ATOM    957  CB  TRP A 123     -36.917  42.339   1.396  1.00 27.34      A
ATOM    958  CG  TRP A 123     -36.865  40.868   1.636  1.00 27.81      A
ATOM    959  CD2 TRP A 123     -36.265  40.202   2.754  1.00 27.20      A
ATOM    960  CE2 TRP A 123     -36.505  38.827   2.598  1.00 27.90      A
ATOM    961  CE3 TRP A 123     -35.502  40.632   3.844  1.00 28.44      A
ATOM    962  CD1 TRP A 123     -37.449  39.894   0.882  1.00 27.32      A
ATOM    963  NE1 TRP A 123     -37.249  38.666   1.458  1.00 27.64      A
ATOM    964  CZ2 TRP A 123     -36.072  37.885   3.531  1.00 29.29      A
ATOM    965  CZ3 TRP A 123     -35.069  39.698   4.764  1.00 26.82      A
ATOM    966  CH2 TRP A 123     -35.333  38.340   4.591  1.00 28.62      A
ATOM    967  C   TRP A 123     -35.424  42.203  -0.566  1.00 32.56      A
ATOM    968  O   TRP A 123     -34.590  41.302  -0.697  1.00 34.95      A
ATOM    969  N   GLU A 124     -36.175  42.643  -1.565  1.00 33.45      A
ATOM    970  CA  GLU A 124     -36.054  42.078  -2.891  1.00 33.84      A
ATOM    971  CB  GLU A 124     -37.068  42.712  -3.828  1.00 36.45      A
ATOM    972  CG  GLU A 124     -37.156  42.013  -5.168  1.00 44.20      A
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ATOM	973	CD	GLU	A	124	-37.324	40.509	-5.011	1.00	49.98	A
ATOM	974	OE1	GLU	A	124	-37.967	40.096	-4.009	1.00	52.93	A
ATOM	975	OE2	GLU	A	124	-36.825	39.751	-5.883	1.00	47.95	A
ATOM	976	C	GLU	A	124	-34.652	42.305	-3.426	1.00	33.58	A
ATOM	977	O	GLU	A	124	-34.097	41.445	-4.110	1.00	34.36	A
ATOM	978	N	ASP	A	125	-34.073	43.461	-3.112	1.00	32.23	A
ATOM	979	CA	ASP	A	125	-32.726	43.772	-3.575	1.00	31.84	A
ATOM	980	CB	ASP	A	125	-32.397	45.242	-3.311	1.00	30.18	A
ATOM	981	CG	ASP	A	125	-30.968	45.596	-3.695	1.00	33.74	A
ATOM	982	OD1	ASP	A	125	-30.693	45.796	-4.896	1.00	35.04	A
ATOM	983	OD2	ASP	A	125	-30.107	45.662	-2.793	1.00	34.61	A
ATOM	984	C	ASP	A	125	-31.699	42.866	-2.884	1.00	31.97	A
ATOM	985	O	ASP	A	125	-30.666	42.525	-3.465	1.00	32.03	A
ATOM	986	N	LEU	A	126	-31.984	42.482	-1.644	1.00	30.68	A
ATOM	987	CA	LEU	A	126	-31.087	41.612	-0.911	1.00	29.39	A
ATOM	988	CB	LEU	A	126	-31.520	41.504	0.548	1.00	29.47	A
ATOM	989	CG	LEU	A	126	-31.067	42.622	1.494	1.00	28.46	A
ATOM	990	CD1	LEU	A	126	-31.644	42.401	2.888	1.00	25.25	A
ATOM	991	CD2	LEU	A	126	-29.548	42.647	1.538	1.00	26.22	A
ATOM	992	C	LEU	A	126	-31.101	40.234	-1.539	1.00	30.59	A
ATOM	993	O	LEU	A	126	-30.127	39.499	-1.450	1.00	31.86	A
ATOM	994	N	LEU	A	127	-32.207	39.890	-2.187	1.00	30.02	A
ATOM	995	CA	LEU	A	127	-32.347	38.582	-2.816	1.00	29.77	A
ATOM	996	CB	LEU	A	127	-33.820	38.160	-2.868	1.00	27.16	A
ATOM	997	CG	LEU	A	127	-34.600	37.938	-1.572	1.00	25.00	A
ATOM	998	CD1	LEU	A	127	-35.990	37.471	-1.928	1.00	22.68	A
ATOM	999	CD2	LEU	A	127	-33.906	36.899	-0.689	1.00	25.47	A
ATOM	1000	C	LEU	A	127	-31.804	38.540	-4.224	1.00	31.28	A
ATOM	1001	O	LEU	A	127	-31.452	37.476	-4.718	1.00	33.33	A
ATOM	1002	N	GLU	A	128	-31.740	39.699	-4.869	1.00	33.73	A
ATOM	1003	CA	GLU	A	128	-31.275	39.785	-6.252	1.00	34.45	A
ATOM	1004	CB	GLU	A	128	-32.195	40.726	-7.023	1.00	38.45	A
ATOM	1005	CG	GLU	A	128	-33.600	40.171	-7.165	1.00	45.88	A
ATOM	1006	CD	GLU	A	128	-34.590	41.178	-7.719	1.00	50.49	A
ATOM	1007	OE1	GLU	A	128	-35.723	40.760	-8.045	1.00	54.12	A
ATOM	1008	OE2	GLU	A	128	-34.248	42.380	-7.817	1.00	51.93	A
ATOM	1009	C	GLU	A	128	-29.826	40.214	-6.420	1.00	32.22	A
ATOM	1010	O	GLU	A	128	-29.117	39.691	-7.278	1.00	29.54	A
ATOM	1011	N	ASP	A	129	-29.397	41.169	-5.601	1.00	31.14	A
ATOM	1012	CA	ASP	A	129	-28.031	41.670	-5.639	1.00	30.88	A
ATOM	1013	CB	ASP	A	129	-28.026	43.181	-5.410	1.00	29.97	A
ATOM	1014	CG	ASP	A	129	-26.734	43.841	-5.856	1.00	30.53	A
ATOM	1015	OD1	ASP	A	129	-25.656	43.234	-5.680	1.00	29.62	A
ATOM	1016	OD2	ASP	A	129	-26.796	44.981	-6.367	1.00	29.57	A
ATOM	1017	C	ASP	A	129	-27.266	40.975	-4.513	1.00	31.60	A
ATOM	1018	O	ASP	A	129	-27.619	41.107	-3.349	1.00	33.54	A
ATOM	1019	N	THR	A	130	-26.224	40.231	-4.856	1.00	31.21	A
ATOM	1020	CA	THR	A	130	-25.432	39.524	-3.856	1.00	31.59	A
ATOM	1021	CB	THR	A	130	-25.190	38.076	-4.293	1.00	31.24	A
ATOM	1022	OG1	THR	A	130	-24.411	38.063	-5.501	1.00	29.16	A
ATOM	1023	CG2	THR	A	130	-26.501	37.379	-4.545	1.00	29.85	A
ATOM	1024	C	THR	A	130	-24.055	40.147	-3.626	1.00	33.87	A
ATOM	1025	O	THR	A	130	-23.250	39.590	-2.882	1.00	33.14	A
ATOM	1026	N	GLU	A	131	-23.791	41.303	-4.235	1.00	36.22	A
ATOM	1027	CA	GLU	A	131	-22.467	41.910	-4.138	1.00	39.19	A
ATOM	1028	CB	GLU	A	131	-21.733	41.770	-5.468	1.00	42.45	A
ATOM	1029	CG	GLU	A	131	-21.474	40.369	-5.958	1.00	51.23	A
ATOM	1030	CD	GLU	A	131	-20.752	40.391	-7.301	1.00	56.21	A
ATOM	1031	OE1	GLU	A	131	-20.049	41.400	-7.576	1.00	58.42	A
ATOM	1032	OE2	GLU	A	131	-20.875	39.408	-8.071	1.00	56.17	A
ATOM	1033	C	GLU	A	131	-22.327	43.369	-3.758	1.00	39.04	A
ATOM	1034	O	GLU	A	131	-21.491	43.715	-2.931	1.00	40.95	A
ATOM	1035	N	THR	A	132	-23.103	44.229	-4.401	1.00	37.01	A
ATOM	1036	CA	THR	A	132	-22.988	45.661	-4.171	1.00	35.19	A
ATOM	1037	CB	THR	A	132	-24.106	46.423	-4.896	1.00	36.43	A
ATOM	1038	OG1	THR	A	132	-24.276	45.886	-6.221	1.00	35.50	A
ATOM	1039	CG2	THR	A	132	-23.745	47.904	-4.981	1.00	33.37	A
ATOM	1040	C	THR	A	132	-22.959	46.086	-2.711	1.00	33.57	A
ATOM	1041	O	THR	A	132	-23.936	45.906	-1.978	1.00	33.33	A
ATOM	1042	N	PRO	A	133	-21.826	46.656	-2.268	1.00	31.42	A
ATOM	1043	CD	PRO	A	133	-20.591	46.896	-3.027	1.00	30.11	A
ATOM	1044	CA	PRO	A	133	-21.672	47.109	-0.884	1.00	30.63	A
ATOM	1045	CB	PRO	A	133	-20.404	47.936	-0.937	1.00	28.83	A
ATOM	1046	CG	PRO	A	133	-19.590	47.170	-1.926	1.00	30.24	A
ATOM	1047	C	PRO	A	133	-22.878	47.926	-0.506	1.00	30.26	A

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ATOM   1048  O   PRO A 133     -23.471  48.583  -1.354  1.00 32.96      A
ATOM   1049  N   ILE A 134     -23.253  47.874   0.760  1.00 28.44      A
ATOM   1050  CA  ILE A 134     -24.408  48.616   1.210  1.00 28.63      A
ATOM   1051  CB  ILE A 134     -25.327  47.701   2.031  1.00 28.76      A
ATOM   1052  CG2 ILE A 134     -26.353  48.513   2.816  1.00 25.18      A
ATOM   1053  CG1 ILE A 134     -25.987  46.692   1.089  1.00 27.62      A
ATOM   1054  CD1 ILE A 134     -26.883  45.674   1.795  1.00 26.53      A
ATOM   1055  C   ILE A 134     -23.984  49.824   2.022  1.00 30.34      A
ATOM   1056  O   ILE A 134     -23.207  49.710   2.960  1.00 33.07      A
ATOM   1057  N   ASP A 135     -24.505  50.986   1.660  1.00 30.58      A
ATOM   1058  CA  ASP A 135     -24.160  52.209   2.356  1.00 32.89      A
ATOM   1059  CB  ASP A 135     -24.920  53.389   1.752  1.00 35.68      A
ATOM   1060  CG  ASP A 135     -24.626  54.696   2.465  1.00 40.96      A
ATOM   1061  OD1 ASP A 135     -23.478  55.188   2.352  1.00 42.33      A
ATOM   1062  OD2 ASP A 135     -25.538  55.225   3.149  1.00 43.20      A
ATOM   1063  C   ASP A 135     -24.436  52.155   3.854  1.00 32.92      A
ATOM   1064  O   ASP A 135     -25.373  51.494   4.307  1.00 33.42      A
ATOM   1065  N   THR A 136     -23.607  52.865   4.614  1.00 32.46      A
ATOM   1066  CA  THR A 136     -23.757  52.955   6.059  1.00 32.15      A
ATOM   1067  CB  THR A 136     -22.808  51.990   6.819  1.00 32.39      A
ATOM   1068  OG1 THR A 136     -21.459  52.473   6.743  1.00 30.53      A
ATOM   1069  CG2 THR A 136     -22.884  50.582   6.229  1.00 31.10      A
ATOM   1070  C   THR A 136     -23.394  54.381   6.443  1.00 32.61      A
ATOM   1071  O   THR A 136     -22.651  55.043   5.732  1.00 33.18      A
ATOM   1072  N   THR A 137     -23.935  54.854   7.556  1.00 33.30      A
ATOM   1073  CA  THR A 137     -23.648  56.192   8.045  1.00 33.98      A
ATOM   1074  CB  THR A 137     -24.930  56.893   8.552  1.00 34.15      A
ATOM   1075  OG1 THR A 137     -25.865  57.012   7.475  1.00 35.71      A
ATOM   1076  CG2 THR A 137     -24.617  58.276   9.101  1.00 31.43      A
ATOM   1077  C   THR A 137     -22.714  55.983   9.223  1.00 36.80      A
ATOM   1078  O   THR A 137     -22.794  54.955   9.902  1.00 39.38      A
ATOM   1079  N   ILE A 138     -21.825  56.939   9.468  1.00 37.14      A
ATOM   1080  CA  ILE A 138     -20.904  56.823  10.591  1.00 36.64      A
ATOM   1081  CB  ILE A 138     -19.438  56.689  10.104  1.00 35.85      A
ATOM   1082  CG2 ILE A 138     -19.084  57.856   9.207  1.00 32.64      A
ATOM   1083  CG1 ILE A 138     -18.490  56.568  11.305  1.00 35.43      A
ATOM   1084  CD1 ILE A 138     -17.034  56.283  10.930  1.00 32.09      A
ATOM   1085  C   ILE A 138     -21.076  58.060  11.461  1.00 37.01      A
ATOM   1086  O   ILE A 138     -21.022  59.184  10.970  1.00 38.35      A
ATOM   1087  N   MET A 139     -21.304  57.842  12.752  1.00 37.17      A
ATOM   1088  CA  MET A 139     -21.515  58.934  13.693  1.00 36.51      A
ATOM   1089  CB  MET A 139     -22.968  58.954  14.158  1.00 36.34      A
ATOM   1090  CG  MET A 139     -23.963  59.251  13.061  1.00 38.57      A
ATOM   1091  SD  MET A 139     -23.712  60.904  12.410  1.00 45.82      A
ATOM   1092  CE  MET A 139     -24.916  61.841  13.369  1.00 41.97      A
ATOM   1093  C   MET A 139     -20.631  58.850  14.916  1.00 36.43      A
ATOM   1094  O   MET A 139     -20.154  57.782  15.279  1.00 37.03      A
ATOM   1095  N   ALA A 140     -20.405  60.002  15.536  1.00 37.80      A
ATOM   1096  CA  ALA A 140     -19.625  60.075  16.759  1.00 37.35      A
ATOM   1097  CB  ALA A 140     -19.050  61.456  16.936  1.00 37.23      A
ATOM   1098  C   ALA A 140     -20.658  59.788  17.842  1.00 38.87      A
ATOM   1099  O   ALA A 140     -21.706  60.434  17.908  1.00 37.77      A
ATOM   1100  N   LYS A 141     -20.371  58.796  18.674  1.00 40.89      A
ATOM   1101  CA  LYS A 141     -21.283  58.405  19.733  1.00 40.92      A
ATOM   1102  CB  LYS A 141     -20.944  56.987  20.188  1.00 43.55      A
ATOM   1103  CG  LYS A 141     -22.076  56.247  20.880  1.00 46.10      A
ATOM   1104  CD  LYS A 141     -21.682  54.799  21.116  1.00 46.10      A
ATOM   1105  CE  LYS A 141     -22.766  54.021  21.838  1.00 47.01      A
ATOM   1106  NZ  LYS A 141     -22.309  52.619  22.048  1.00 47.29      A
ATOM   1107  C   LYS A 141     -21.163  59.383  20.887  1.00 40.91      A
ATOM   1108  O   LYS A 141     -20.059  59.793  21.253  1.00 41.72      A
ATOM   1109  N   SER A 142     -22.307  59.762  21.445  1.00 39.65      A
ATOM   1110  CA  SER A 142     -22.362  60.698  22.567  1.00 37.38      A
ATOM   1111  CB  SER A 142     -23.493  61.696  22.348  1.00 37.21      A
ATOM   1112  OG  SER A 142     -23.684  62.492  23.497  1.00 36.32      A
ATOM   1113  C   SER A 142     -22.590  59.972  23.890  1.00 36.00      A
ATOM   1114  O   SER A 142     -23.712  59.577  24.202  1.00 35.06      A
ATOM   1115  N   GLU A 143     -21.525  59.800  24.665  1.00 34.68      A
ATOM   1116  CA  GLU A 143     -21.620  59.117  25.952  1.00 34.99      A
ATOM   1117  CB  GLU A 143     -20.917  57.754  25.898  1.00 35.33      A
ATOM   1118  CG  GLU A 143     -21.389  56.835  24.788  1.00 38.22      A
ATOM   1119  CD  GLU A 143     -20.551  55.570  24.679  1.00 39.82      A
ATOM   1120  OE1 GLU A 143     -19.316  55.689  24.617  1.00 43.04      A
ATOM   1121  OE2 GLU A 143     -21.114  54.457  24.641  1.00 42.03      A
ATOM   1122  C   GLU A 143     -20.991  59.959  27.061  1.00 35.32      A
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ATOM	1123	O	GLU	A	143	-19.969	60.627	26.858	1.00	33.49	A
ATOM	1124	N	VAL	A	144	-21.616	59.908	28.234	1.00	35.53	A
ATOM	1125	CA	VAL	A	144	-21.167	60.651	29.402	1.00	36.31	A
ATOM	1126	CB	VAL	A	144	-22.379	61.056	30.273	1.00	36.09	A
ATOM	1127	CG1	VAL	A	144	-21.916	61.489	31.665	1.00	34.05	A
ATOM	1128	CG2	VAL	A	144	-23.155	62.178	29.578	1.00	34.97	A
ATOM	1129	C	VAL	A	144	-20.172	59.881	30.265	1.00	36.87	A
ATOM	1130	O	VAL	A	144	-20.280	58.666	30.433	1.00	37.74	A
ATOM	1131	N	PHE	A	145	-19.203	60.604	30.812	1.00	36.81	A
ATOM	1132	CA	PHE	A	145	-18.190	60.011	31.670	1.00	38.00	A
ATOM	1133	CB	PHE	A	145	-17.005	59.534	30.837	1.00	36.58	A
ATOM	1134	CG	PHE	A	145	-17.334	58.428	29.899	1.00	36.82	A
ATOM	1135	CD1	PHE	A	145	-17.460	57.123	30.362	1.00	39.19	A
ATOM	1136	CD2	PHE	A	145	-17.532	58.684	28.546	1.00	37.31	A
ATOM	1137	CE1	PHE	A	145	-17.783	56.073	29.488	1.00	36.70	A
ATOM	1138	CE2	PHE	A	145	-17.854	57.649	27.662	1.00	36.39	A
ATOM	1139	CZ	PHE	A	145	-17.979	56.339	28.139	1.00	36.05	A
ATOM	1140	C	PHE	A	145	-17.706	61.071	32.655	1.00	40.11	A
ATOM	1141	O	PHE	A	145	-18.081	62.247	32.546	1.00	40.28	A
ATOM	1142	N	CYS	A	146	-16.879	60.642	33.611	1.00	40.76	A
ATOM	1143	CA	CYS	A	146	-16.279	61.528	34.612	1.00	41.35	A
ATOM	1144	CB	CYS	A	146	-16.376	60.890	36.005	1.00	41.48	A
ATOM	1145	SG	CYS	A	146	-15.521	61.776	37.348	1.00	42.72	A
ATOM	1146	C	CYS	A	146	-14.807	61.694	34.208	1.00	42.46	A
ATOM	1147	O	CYS	A	146	-14.195	60.739	33.719	1.00	43.00	A
ATOM	1148	N	VAL	A	147	-14.241	62.888	34.389	1.00	42.85	A
ATOM	1149	CA	VAL	A	147	-12.836	63.110	34.029	1.00	44.70	A
ATOM	1150	CB	VAL	A	147	-12.352	64.530	34.387	1.00	41.41	A
ATOM	1151	CG1	VAL	A	147	-12.975	65.543	33.460	1.00	39.95	A
ATOM	1152	CG2	VAL	A	147	-12.688	64.837	35.838	1.00	41.04	A
ATOM	1153	C	VAL	A	147	-11.937	62.136	34.769	1.00	49.26	A
ATOM	1154	O	VAL	A	147	-12.344	61.520	35.751	1.00	50.31	A
ATOM	1155	N	GLN	A	148	-10.697	62.021	34.317	1.00	54.63	A
ATOM	1156	CA	GLN	A	148	-9.753	61.112	34.946	1.00	60.93	A
ATOM	1157	CB	GLN	A	148	-9.354	60.028	33.951	1.00	62.56	A
ATOM	1158	CG	GLN	A	148	-10.532	59.256	33.400	1.00	66.18	A
ATOM	1159	CD	GLN	A	148	-10.173	58.460	32.162	1.00	68.44	A
ATOM	1160	OE1	GLN	A	148	-9.707	59.019	31.163	1.00	69.91	A
ATOM	1161	NE2	GLN	A	148	-10.386	57.148	32.219	1.00	69.03	A
ATOM	1162	C	GLN	A	148	-8.496	61.817	35.444	1.00	64.15	A
ATOM	1163	O	GLN	A	148	-8.222	62.966	35.084	1.00	64.37	A
ATOM	1164	N	PRO	A	149	-7.726	61.138	36.312	1.00	67.02	A
ATOM	1165	CD	PRO	A	149	-8.139	59.972	37.120	1.00	66.47	A
ATOM	1166	CA	PRO	A	149	-6.488	61.729	36.836	1.00	67.97	A
ATOM	1167	CB	PRO	A	149	-6.152	60.827	38.029	1.00	68.10	A
ATOM	1168	CG	PRO	A	149	-7.511	60.280	38.451	1.00	66.14	A
ATOM	1169	C	PRO	A	149	-5.393	61.697	35.744	1.00	69.08	A
ATOM	1170	O	PRO	A	149	-5.043	62.784	35.224	1.00	69.35	A
ATOM	1171	OXT	PRO	A	149	-4.917	60.584	35.403	1.00	67.74	A
ATOM	1172	CB	ARG	A	154	-11.491	63.612	27.868	1.00	53.33	A
ATOM	1173	CG	ARG	A	154	-11.868	64.674	28.860	1.00	57.87	A
ATOM	1174	CD	ARG	A	154	-12.615	65.807	28.205	1.00	60.74	A
ATOM	1175	NE	ARG	A	154	-12.891	66.851	29.184	1.00	66.93	A
ATOM	1176	CZ	ARG	A	154	-13.606	67.943	28.935	1.00	69.68	A
ATOM	1177	NH1	ARG	A	154	-14.123	68.138	27.728	1.00	72.62	A
ATOM	1178	NH2	ARG	A	154	-13.814	68.835	29.895	1.00	70.23	A
ATOM	1179	C	ARG	A	154	-10.760	61.295	27.481	1.00	51.42	A
ATOM	1180	O	ARG	A	154	-9.760	61.143	26.785	1.00	52.83	A
ATOM	1181	N	ARG	A	154	-9.497	62.760	29.082	1.00	51.89	A
ATOM	1182	CA	ARG	A	154	-10.829	62.399	28.512	1.00	52.71	A
ATOM	1183	N	LYS	A	155	-11.835	60.520	27.396	1.00	49.61	A
ATOM	1184	CA	LYS	A	155	-11.930	59.431	26.438	1.00	47.87	A
ATOM	1185	CB	LYS	A	155	-12.887	58.345	26.942	1.00	48.34	A
ATOM	1186	CG	LYS	A	155	-12.543	57.745	28.291	1.00	50.69	A
ATOM	1187	CD	LYS	A	155	-13.575	56.699	28.708	1.00	50.72	A
ATOM	1188	CE	LYS	A	155	-13.198	56.072	30.047	1.00	53.43	A
ATOM	1189	NZ	LYS	A	155	-14.167	55.036	30.519	1.00	54.16	A
ATOM	1190	C	LYS	A	155	-12.506	60.023	25.159	1.00	47.17	A
ATOM	1191	O	LYS	A	155	-13.356	60.920	25.208	1.00	47.03	A
ATOM	1192	N	PRO	A	156	-12.029	59.564	23.995	1.00	45.62	A
ATOM	1193	CD	PRO	A	156	-10.784	58.822	23.744	1.00	44.35	A
ATOM	1194	CA	PRO	A	156	-12.580	60.111	22.750	1.00	44.27	A
ATOM	1195	CB	PRO	A	156	-11.471	59.854	21.741	1.00	44.14	A
ATOM	1196	CG	PRO	A	156	-10.847	58.597	22.258	1.00	45.24	A
ATOM	1197	C	PRO	A	156	-13.866	59.355	22.424	1.00	43.61	A

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ATOM   1198  O   PRO A 156     -14.046  58.213  22.863  1.00 42.92      A
ATOM   1199  N   ALA A 157     -14.763  59.988  21.674  1.00 41.72      A
ATOM   1200  CA  ALA A 157     -16.028  59.353  21.318  1.00 40.47      A
ATOM   1201  CB  ALA A 157     -16.857  60.293  20.464  1.00 39.15      A
ATOM   1202  C   ALA A 157     -15.836  58.034  20.582  1.00 39.42      A
ATOM   1203  O   ALA A 157     -14.860  57.857  19.859  1.00 38.93      A
ATOM   1204  N   ARG A 158     -16.756  57.097  20.786  1.00 39.92      A
ATOM   1205  CA  ARG A 158     -16.679  55.827  20.076  1.00 40.64      A
ATOM   1206  CB  ARG A 158     -17.360  54.688  20.873  1.00 42.18      A
ATOM   1207  CG  ARG A 158     -16.506  54.118  22.034  1.00 43.54      A
ATOM   1208  CD  ARG A 158     -16.816  52.632  22.378  1.00 44.94      A
ATOM   1209  NE  ARG A 158     -15.656  51.942  22.983  1.00 48.78      A
ATOM   1210  CZ  ARG A 158     -15.367  50.641  22.835  1.00 49.75      A
ATOM   1211  NH1 ARG A 158     -16.148  49.858  22.100  1.00 52.54      A
ATOM   1212  NH2 ARG A 158     -14.291  50.113  23.409  1.00 43.98      A
ATOM   1213  C   ARG A 158     -17.403  56.091  18.749  1.00 40.08      A
ATOM   1214  O   ARG A 158     -18.144  57.065  18.630  1.00 40.16      A
ATOM   1215  N   LEU A 159     -17.172  55.256  17.743  1.00 38.56      A
ATOM   1216  CA  LEU A 159     -17.826  55.442  16.451  1.00 36.28      A
ATOM   1217  CB  LEU A 159     -16.806  55.359  15.310  1.00 35.98      A
ATOM   1218  CG  LEU A 159     -15.761  56.455  15.071  1.00 36.51      A
ATOM   1219  CD1 LEU A 159     -15.906  57.601  16.082  1.00 36.81      A
ATOM   1220  CD2 LEU A 159     -14.389  55.819  15.128  1.00 32.46      A
ATOM   1221  C   LEU A 159     -18.900  54.393  16.199  1.00 35.70      A
ATOM   1222  O   LEU A 159     -18.661  53.199  16.364  1.00 35.86      A
ATOM   1223  N   ILE A 160     -20.087  54.832  15.804  1.00 34.64      A
ATOM   1224  CA  ILE A 160     -21.138  53.885  15.490  1.00 33.82      A
ATOM   1225  CB  ILE A 160     -22.436  54.228  16.209  1.00 33.09      A
ATOM   1226  CG2 ILE A 160     -22.264  53.999  17.688  1.00 33.92      A
ATOM   1227  CG1 ILE A 160     -22.809  55.682  15.947  1.00 34.72      A
ATOM   1228  CD1 ILE A 160     -24.124  56.116  16.593  1.00 33.51      A
ATOM   1229  C   ILE A 160     -21.350  53.898  13.985  1.00 34.49      A
ATOM   1230  O   ILE A 160     -21.249  54.936  13.340  1.00 37.00      A
ATOM   1231  N   VAL A 161     -21.618  52.732  13.419  1.00 34.40      A
ATOM   1232  CA  VAL A 161     -21.834  52.614  11.986  1.00 32.55      A
ATOM   1233  CB  VAL A 161     -20.635  51.898  11.333  1.00 30.42      A
ATOM   1234  CG1 VAL A 161     -20.890  51.646   9.846  1.00 31.10      A
ATOM   1235  CG2 VAL A 161     -19.400  52.740  11.510  1.00 26.73      A
ATOM   1236  C   VAL A 161     -23.122  51.823  11.788  1.00 34.28      A
ATOM   1237  O   VAL A 161     -23.297  50.747  12.368  1.00 34.82      A
ATOM   1238  N   PHE A 162     -24.034  52.350  10.975  1.00 34.41      A
ATOM   1239  CA  PHE A 162     -25.302  51.664  10.769  1.00 33.86      A
ATOM   1240  CB  PHE A 162     -26.300  52.070  11.855  1.00 32.47      A
ATOM   1241  CG  PHE A 162     -26.513  53.562  11.963  1.00 31.20      A
ATOM   1242  CD1 PHE A 162     -25.636  54.353  12.700  1.00 31.11      A
ATOM   1243  CD2 PHE A 162     -27.568  54.179  11.299  1.00 28.71      A
ATOM   1244  CE1 PHE A 162     -25.814  55.736  12.773  1.00 28.52      A
ATOM   1245  CE2 PHE A 162     -27.747  55.554  11.370  1.00 26.43      A
ATOM   1246  CZ  PHE A 162     -26.867  56.331  12.105  1.00 26.39      A
ATOM   1247  C   PHE A 162     -25.937  51.923   9.419  1.00 33.95      A
ATOM   1248  O   PHE A 162     -25.872  53.041   8.900  1.00 36.09      A
ATOM   1249  N   PRO A 163     -26.578  50.889   8.841  1.00 32.13      A
ATOM   1250  CD  PRO A 163     -26.643  49.518   9.374  1.00 31.15      A
ATOM   1251  CA  PRO A 163     -27.252  50.960   7.544  1.00 31.31      A
ATOM   1252  CB  PRO A 163     -27.441  49.498   7.182  1.00 32.53      A
ATOM   1253  CG  PRO A 163     -27.718  48.893   8.517  1.00 32.28      A
ATOM   1254  C   PRO A 163     -28.575  51.675   7.715  1.00 30.72      A
ATOM   1255  O   PRO A 163     -28.981  51.954   8.841  1.00 26.94      A
ATOM   1256  N   ASP A 164     -29.246  51.947   6.597  1.00 31.79      A
ATOM   1257  CA  ASP A 164     -30.526  52.649   6.602  1.00 32.99      A
ATOM   1258  CB  ASP A 164     -30.946  52.977   5.167  1.00 32.91      A
ATOM   1259  CG  ASP A 164     -32.072  53.991   5.105  1.00 34.71      A
ATOM   1260  OD1 ASP A 164     -31.808  55.184   5.355  1.00 36.53      A
ATOM   1261  OD2 ASP A 164     -33.221  53.599   4.818  1.00 34.32      A
ATOM   1262  C   ASP A 164     -31.638  51.852   7.287  1.00 33.95      A
ATOM   1263  O   ASP A 164     -31.676  50.625   7.212  1.00 32.82      A
ATOM   1264  N   LEU A 165     -32.547  52.561   7.946  1.00 35.12      A
ATOM   1265  CA  LEU A 165     -33.654  51.912   8.634  1.00 37.21      A
ATOM   1266  CB  LEU A 165     -34.738  52.938   8.981  1.00 38.60      A
ATOM   1267  CG  LEU A 165     -36.082  52.406   9.509  1.00 39.64      A
ATOM   1268  CD1 LEU A 165     -35.871  51.429  10.662  1.00 39.58      A
ATOM   1269  CD2 LEU A 165     -36.941  53.586   9.958  1.00 40.06      A
ATOM   1270  C   LEU A 165     -34.268  50.785   7.810  1.00 38.25      A
ATOM   1271  O   LEU A 165     -34.708  49.774   8.366  1.00 39.18      A
ATOM   1272  N   GLY A 166     -34.309  50.969   6.489  1.00 37.59      A
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ATOM   1273  CA  GLY A 166     -34.876  49.957   5.615  1.00 34.78      A
ATOM   1274  C   GLY A 166     -34.147  48.635   5.758  1.00 34.35      A
ATOM   1275  O   GLY A 166     -34.759  47.603   6.022  1.00 36.96      A
ATOM   1276  N   VAL A 167     -32.831  48.665   5.581  1.00 32.94      A
ATOM   1277  CA  VAL A 167     -32.016  47.469   5.709  1.00 30.90      A
ATOM   1278  CB  VAL A 167     -30.527  47.793   5.471  1.00 28.66      A
ATOM   1279  CG1 VAL A 167     -29.674  46.681   5.975  1.00 29.18      A
ATOM   1280  CG2 VAL A 167     -30.267  47.997   3.998  1.00 26.77      A
ATOM   1281  C   VAL A 167     -32.185  46.865   7.108  1.00 31.89      A
ATOM   1282  O   VAL A 167     -32.294  45.646   7.265  1.00 32.13      A
ATOM   1283  N   ARG A 168     -32.217  47.723   8.121  1.00 32.68      A
ATOM   1284  CA  ARG A 168     -32.362  47.263   9.494  1.00 32.30      A
ATOM   1285  CB  ARG A 168     -32.387  48.452  10.453  1.00 31.43      A
ATOM   1286  CG  ARG A 168     -31.073  49.230  10.468  1.00 31.56      A
ATOM   1287  CD  ARG A 168     -30.860  49.968  11.789  1.00 31.26      A
ATOM   1288  NE  ARG A 168     -31.855  51.010  12.023  1.00 33.74      A
ATOM   1289  CZ  ARG A 168     -31.825  52.223  11.474  1.00 34.40      A
ATOM   1290  NH1 ARG A 168     -30.842  52.570  10.647  1.00 34.01      A
ATOM   1291  NH2 ARG A 168     -32.780  53.097  11.760  1.00 33.85      A
ATOM   1292  C   ARG A 168     -33.597  46.394   9.688  1.00 33.41      A
ATOM   1293  O   ARG A 168     -33.533  45.365  10.371  1.00 36.87      A
ATOM   1294  N   VAL A 169     -34.715  46.776   9.082  1.00 32.04      A
ATOM   1295  CA  VAL A 169     -35.927  45.977   9.218  1.00 31.15      A
ATOM   1296  CB  VAL A 169     -37.146  46.708   8.623  1.00 30.91      A
ATOM   1297  CG1 VAL A 169     -38.406  45.879   8.824  1.00 26.84      A
ATOM   1298  CG2 VAL A 169     -37.308  48.067   9.293  1.00 28.81      A
ATOM   1299  C   VAL A 169     -35.731  44.629   8.520  1.00 32.12      A
ATOM   1300  O   VAL A 169     -36.236  43.603   8.975  1.00 31.83      A
ATOM   1301  N   CYS A 170     -34.983  44.628   7.421  1.00 32.56      A
ATOM   1302  CA  CYS A 170     -34.713  43.385   6.703  1.00 33.06      A
ATOM   1303  CB  CYS A 170     -34.106  43.674   5.339  1.00 32.13      A
ATOM   1304  SG  CYS A 170     -35.253  44.424   4.220  1.00 34.12      A
ATOM   1305  C   CYS A 170     -33.768  42.482   7.493  1.00 32.82      A
ATOM   1306  O   CYS A 170     -33.857  41.254   7.418  1.00 32.52      A
ATOM   1307  N   GLU A 171     -32.851  43.088   8.239  1.00 32.76      A
ATOM   1308  CA  GLU A 171     -31.925  42.299   9.043  1.00 32.62      A
ATOM   1309  CB  GLU A 171     -30.954  43.190   9.827  1.00 31.71      A
ATOM   1310  CG  GLU A 171     -29.858  43.842   9.033  1.00 31.76      A
ATOM   1311  CD  GLU A 171     -28.880  44.592   9.937  1.00 34.72      A
ATOM   1312  OE1 GLU A 171     -28.077  43.941  10.637  1.00 32.38      A
ATOM   1313  OE2 GLU A 171     -28.921  45.840   9.962  1.00 38.60      A
ATOM   1314  C   GLU A 171     -32.748  41.496  10.039  1.00 32.10      A
ATOM   1315  O   GLU A 171     -32.537  40.294  10.198  1.00 31.95      A
ATOM   1316  N   LYS A 172     -33.688  42.167  10.704  1.00 31.24      A
ATOM   1317  CA  LYS A 172     -34.521  41.503  11.699  1.00 32.80      A
ATOM   1318  CB  LYS A 172     -35.506  42.499  12.332  1.00 34.57      A
ATOM   1319  CG  LYS A 172     -34.854  43.539  13.235  1.00 36.44      A
ATOM   1320  CD  LYS A 172     -35.802  44.689  13.560  1.00 38.20      A
ATOM   1321  CE  LYS A 172     -35.160  45.705  14.505  1.00 38.38      A
ATOM   1322  NZ  LYS A 172     -33.936  46.352  13.950  1.00 40.94      A
ATOM   1323  C   LYS A 172     -35.287  40.325  11.098  1.00 33.19      A
ATOM   1324  O   LYS A 172     -35.357  39.250  11.701  1.00 32.28      A
ATOM   1325  N   MET A 173     -35.854  40.522   9.908  1.00 32.19      A
ATOM   1326  CA  MET A 173     -36.615  39.458   9.256  1.00 31.57      A
ATOM   1327  CB  MET A 173     -37.209  39.943   7.932  1.00 32.61      A
ATOM   1328  CG  MET A 173     -38.437  40.829   8.078  1.00 33.83      A
ATOM   1329  SD  MET A 173     -39.141  41.257   6.480  1.00 36.32      A
ATOM   1330  CE  MET A 173     -38.148  42.684   6.013  1.00 34.07      A
ATOM   1331  C   MET A 173     -35.785  38.213   8.992  1.00 31.06      A
ATOM   1332  O   MET A 173     -36.247  37.088   9.204  1.00 30.70      A
ATOM   1333  N   ALA A 174     -34.556  38.421   8.535  1.00 29.25      A
ATOM   1334  CA  ALA A 174     -33.673  37.317   8.210  1.00 28.14      A
ATOM   1335  CB  ALA A 174     -32.800  37.710   7.024  1.00 25.80      A
ATOM   1336  C   ALA A 174     -32.789  36.818   9.357  1.00 29.13      A
ATOM   1337  O   ALA A 174     -32.356  35.666   9.354  1.00 28.14      A
ATOM   1338  N   LEU A 175     -32.537  37.651  10.357  1.00 28.95      A
ATOM   1339  CA  LEU A 175     -31.640  37.203  11.406  1.00 30.37      A
ATOM   1340  CB  LEU A 175     -30.288  37.898  11.212  1.00 30.02      A
ATOM   1341  CG  LEU A 175     -29.417  37.314  10.093  1.00 29.88      A
ATOM   1342  CD1 LEU A 175     -28.404  38.343   9.627  1.00 30.12      A
ATOM   1343  CD2 LEU A 175     -28.715  36.056  10.603  1.00 26.66      A
ATOM   1344  C   LEU A 175     -32.070  37.306  12.863  1.00 30.46      A
ATOM   1345  O   LEU A 175     -31.434  36.721  13.736  1.00 30.78      A
ATOM   1346  N   TYR A 176     -33.143  38.029  13.141  1.00 31.22      A
ATOM   1347  CA  TYR A 176     -33.581  38.162  14.521  1.00 29.97      A
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ATOM   1348  CB  TYR A 176     -34.947  38.861  14.596  1.00 28.46      A
ATOM   1349  CG  TYR A 176     -35.368  39.132  16.018  1.00 30.13      A
ATOM   1350  CD1 TYR A 176     -34.804  40.178  16.741  1.00 31.44      A
ATOM   1351  CE1 TYR A 176     -35.096  40.356  18.086  1.00 32.23      A
ATOM   1352  CD2 TYR A 176     -36.242  38.273  16.679  1.00 28.69      A
ATOM   1353  CE2 TYR A 176     -36.534  38.436  18.015  1.00 28.92      A
ATOM   1354  CZ  TYR A 176     -35.959  39.477  18.719  1.00 32.15      A
ATOM   1355  OH  TYR A 176     -36.236  39.631  20.063  1.00 34.08      A
ATOM   1356  C   TYR A 176     -33.638  36.799  15.227  1.00 29.57      A
ATOM   1357  O   TYR A 176     -33.057  36.615  16.298  1.00 29.69      A
ATOM   1358  N   ASP A 177     -34.315  35.831  14.631  1.00 29.13      A
ATOM   1359  CA  ASP A 177     -34.401  34.534  15.278  1.00 30.10      A
ATOM   1360  CB  ASP A 177     -35.320  33.614  14.485  1.00 31.77      A
ATOM   1361  CG  ASP A 177     -36.030  32.626  15.368  1.00 33.64      A
ATOM   1362  OD1 ASP A 177     -36.323  32.991  16.530  1.00 37.51      A
ATOM   1363  OD2 ASP A 177     -36.305  31.501  14.909  1.00 35.05      A
ATOM   1364  C   ASP A 177     -33.019  33.895  15.459  1.00 30.17      A
ATOM   1365  O   ASP A 177     -32.683  33.403  16.543  1.00 28.89      A
ATOM   1366  N   VAL A 178     -32.217  33.914  14.400  1.00 29.77      A
ATOM   1367  CA  VAL A 178     -30.876  33.348  14.457  1.00 27.53      A
ATOM   1368  CB  VAL A 178     -30.114  33.595  13.143  1.00 26.26      A
ATOM   1369  CG1 VAL A 178     -28.664  33.184  13.288  1.00 23.54      A
ATOM   1370  CG2 VAL A 178     -30.766  32.799  12.019  1.00 25.83      A
ATOM   1371  C   VAL A 178     -30.069  33.925  15.617  1.00 28.31      A
ATOM   1372  O   VAL A 178     -29.553  33.175  16.460  1.00 29.62      A
ATOM   1373  N   VAL A 179     -29.965  35.248  15.680  1.00 26.40      A
ATOM   1374  CA  VAL A 179     -29.202  35.864  16.750  1.00 25.82      A
ATOM   1375  CB  VAL A 179     -28.904  37.329  16.459  1.00 25.81      A
ATOM   1376  CG1 VAL A 179     -28.230  37.443  15.114  1.00 24.67      A
ATOM   1377  CG2 VAL A 179     -30.178  38.161  16.535  1.00 24.38      A
ATOM   1378  C   VAL A 179     -29.842  35.773  18.132  1.00 27.73      A
ATOM   1379  O   VAL A 179     -29.178  36.029  19.136  1.00 29.06      A
ATOM   1380  N   SER A 180     -31.116  35.401  18.198  1.00 28.48      A
ATOM   1381  CA  SER A 180     -31.789  35.287  19.488  1.00 29.36      A
ATOM   1382  CB  SER A 180     -33.254  35.697  19.363  1.00 29.31      A
ATOM   1383  OG  SER A 180     -33.383  37.015  18.867  1.00 32.67      A
ATOM   1384  C   SER A 180     -31.734  33.858  20.003  1.00 31.44      A
ATOM   1385  O   SER A 180     -31.931  33.609  21.187  1.00 32.97      A
ATOM   1386  N   THR A 181     -31.432  32.921  19.111  1.00 33.39      A
ATOM   1387  CA  THR A 181     -31.418  31.512  19.460  1.00 32.48      A
ATOM   1388  CB  THR A 181     -32.522  30.838  18.699  1.00 34.59      A
ATOM   1389  OG1 THR A 181     -33.740  31.550  18.948  1.00 40.19      A
ATOM   1390  CG2 THR A 181     -32.669  29.415  19.117  1.00 37.72      A
ATOM   1391  C   THR A 181     -30.131  30.728  19.238  1.00 31.99      A
ATOM   1392  O   THR A 181     -29.849  29.795  19.985  1.00 33.64      A
ATOM   1393  N   LEU A 182     -29.346  31.098  18.231  1.00 30.24      A
ATOM   1394  CA  LEU A 182     -28.116  30.365  17.932  1.00 29.21      A
ATOM   1395  CB  LEU A 182     -27.586  30.763  16.554  1.00 28.63      A
ATOM   1396  CG  LEU A 182     -26.465  29.854  16.066  1.00 27.94      A
ATOM   1397  CD1 LEU A 182     -26.666  29.545  14.630  1.00 32.05      A
ATOM   1398  CD2 LEU A 182     -25.148  30.510  16.267  1.00 30.25      A
ATOM   1399  C   LEU A 182     -26.988  30.470  18.954  1.00 27.87      A
ATOM   1400  O   LEU A 182     -26.349  29.472  19.284  1.00 27.50      A
ATOM   1401  N   PRO A 183     -26.710  31.683  19.453  1.00 28.53      A
ATOM   1402  CD  PRO A 183     -27.431  32.949  19.239  1.00 27.37      A
ATOM   1403  CA  PRO A 183     -25.637  31.849  20.441  1.00 28.83      A
ATOM   1404  CB  PRO A 183     -25.870  33.263  20.957  1.00 26.51      A
ATOM   1405  CG  PRO A 183     -26.475  33.951  19.777  1.00 26.12      A
ATOM   1406  C   PRO A 183     -25.767  30.804  21.560  1.00 30.40      A
ATOM   1407  O   PRO A 183     -24.807  30.108  21.909  1.00 28.86      A
ATOM   1408  N   GLN A 184     -26.978  30.714  22.101  1.00 31.37      A
ATOM   1409  CA  GLN A 184     -27.315  29.798  23.169  1.00 33.21      A
ATOM   1410  CB  GLN A 184     -28.779  30.013  23.552  1.00 39.94      A
ATOM   1411  CG  GLN A 184     -29.394  28.893  24.396  1.00 46.81      A
ATOM   1412  CD  GLN A 184     -28.608  28.640  25.660  1.00 49.94      A
ATOM   1413  OE1 GLN A 184     -28.292  29.575  26.397  1.00 54.60      A
ATOM   1414  NE2 GLN A 184     -28.285  27.376  25.922  1.00 52.08      A
ATOM   1415  C   GLN A 184     -27.084  28.329  22.814  1.00 32.48      A
ATOM   1416  O   GLN A 184     -26.458  27.585  23.566  1.00 32.92      A
ATOM   1417  N   ALA A 185     -27.598  27.910  21.668  1.00 30.47      A
ATOM   1418  CA  ALA A 185     -27.455  26.531  21.244  1.00 29.05      A
ATOM   1419  CB  ALA A 185     -28.229  26.295  19.959  1.00 27.30      A
ATOM   1420  C   ALA A 185     -26.002  26.173  21.038  1.00 29.66      A
ATOM   1421  O   ALA A 185     -25.588  25.046  21.314  1.00 30.52      A
ATOM   1422  N   VAL A 186     -25.222  27.131  20.558  1.00 29.15      A
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ATOM   1423  CA  VAL A 186     -23.819  26.866  20.299  1.00 30.84      A
ATOM   1424  CB  VAL A 186     -23.242  27.851  19.250  1.00 30.01      A
ATOM   1425  CG1 VAL A 186     -21.782  27.528  18.980  1.00 28.00      A
ATOM   1426  CG2 VAL A 186     -24.037  27.766  17.958  1.00 30.07      A
ATOM   1427  C   VAL A 186     -22.924  26.904  21.531  1.00 32.37      A
ATOM   1428  O   VAL A 186     -22.220  25.935  21.832  1.00 32.35      A
ATOM   1429  N   MET A 187     -22.955  28.015  22.253  1.00 32.58      A
ATOM   1430  CA  MET A 187     -22.084  28.159  23.402  1.00 32.94      A
ATOM   1431  CB  MET A 187     -21.719  29.626  23.566  1.00 34.15      A
ATOM   1432  CG  MET A 187     -20.900  30.137  22.402  1.00 35.83      A
ATOM   1433  SD  MET A 187     -20.810  31.909  22.343  1.00 36.81      A
ATOM   1434  CE  MET A 187     -22.292  32.252  21.429  1.00 35.07      A
ATOM   1435  C   MET A 187     -22.562  27.591  24.716  1.00 33.07      A
ATOM   1436  O   MET A 187     -21.804  27.553  25.686  1.00 34.12      A
ATOM   1437  N   GLY A 188     -23.805  27.135  24.764  1.00 31.32      A
ATOM   1438  CA  GLY A 188     -24.290  26.577  26.012  1.00 30.20      A
ATOM   1439  C   GLY A 188     -24.080  27.537  27.164  1.00 29.59      A
ATOM   1440  O   GLY A 188     -24.030  28.748  26.963  1.00 32.17      A
ATOM   1441  N   SER A 189     -23.924  27.008  28.369  1.00 28.68      A
ATOM   1442  CA  SER A 189     -23.759  27.851  29.555  1.00 29.26      A
ATOM   1443  CB  SER A 189     -23.381  26.996  30.763  1.00 27.50      A
ATOM   1444  OG  SER A 189     -22.083  26.458  30.602  1.00 29.47      A
ATOM   1445  C   SER A 189     -22.764  29.010  29.432  1.00 30.18      A
ATOM   1446  O   SER A 189     -22.835  29.962  30.209  1.00 31.51      A
ATOM   1447  N   SER A 190     -21.843  28.944  28.474  1.00 29.08      A
ATOM   1448  CA  SER A 190     -20.868  30.015  28.320  1.00 28.14      A
ATOM   1449  CB  SER A 190     -19.691  29.548  27.468  1.00 30.22      A
ATOM   1450  OG  SER A 190     -18.768  28.804  28.246  1.00 33.69      A
ATOM   1451  C   SER A 190     -21.433  31.312  27.747  1.00 27.09      A
ATOM   1452  O   SER A 190     -20.806  32.353  27.859  1.00 26.14      A
ATOM   1453  N   TYR A 191     -22.610  31.254  27.137  1.00 26.64      A
ATOM   1454  CA  TYR A 191     -23.230  32.451  26.579  1.00 27.04      A
ATOM   1455  CB  TYR A 191     -24.388  32.055  25.657  1.00 26.88      A
ATOM   1456  CG  TYR A 191     -25.083  33.211  24.970  1.00 27.75      A
ATOM   1457  CD1 TYR A 191     -24.360  34.172  24.264  1.00 28.52      A
ATOM   1458  CE1 TYR A 191     -24.999  35.241  23.638  1.00 27.62      A
ATOM   1459  CD2 TYR A 191     -26.463  33.348  25.029  1.00 28.73      A
ATOM   1460  CE2 TYR A 191     -27.112  34.418  24.399  1.00 29.17      A
ATOM   1461  CZ  TYR A 191     -26.373  35.355  23.710  1.00 28.37      A
ATOM   1462  OH  TYR A 191     -27.016  36.398  23.083  1.00 29.81      A
ATOM   1463  C   TYR A 191     -23.737  33.271  27.764  1.00 28.47      A
ATOM   1464  O   TYR A 191     -24.623  32.828  28.481  1.00 31.15      A
ATOM   1465  N   GLY A 192     -23.185  34.466  27.963  1.00 27.85      A
ATOM   1466  CA  GLY A 192     -23.579  35.289  29.094  1.00 28.41      A
ATOM   1467  C   GLY A 192     -24.919  36.014  29.103  1.00 29.49      A
ATOM   1468  O   GLY A 192     -25.484  36.233  30.174  1.00 29.61      A
ATOM   1469  N   PHE A 193     -25.435  36.389  27.937  1.00 29.29      A
ATOM   1470  CA  PHE A 193     -26.703  37.110  27.859  1.00 29.32      A
ATOM   1471  CB  PHE A 193     -26.892  37.664  26.453  1.00 28.40      A
ATOM   1472  CG  PHE A 193     -25.958  38.784  26.118  1.00 29.16      A
ATOM   1473  CD1 PHE A 193     -26.041  39.998  26.798  1.00 25.71      A
ATOM   1474  CD2 PHE A 193     -24.983  38.624  25.132  1.00 29.13      A
ATOM   1475  CE1 PHE A 193     -25.181  41.037  26.508  1.00 25.39      A
ATOM   1476  CE2 PHE A 193     -24.110  39.663  24.831  1.00 30.08      A
ATOM   1477  CZ  PHE A 193     -24.211  40.878  25.529  1.00 29.09      A
ATOM   1478  C   PHE A 193     -27.960  36.343  28.269  1.00 31.47      A
ATOM   1479  O   PHE A 193     -29.057  36.907  28.288  1.00 31.94      A
ATOM   1480  N   GLN A 194     -27.807  35.068  28.603  1.00 32.60      A
ATOM   1481  CA  GLN A 194     -28.942  34.250  29.017  1.00 34.13      A
ATOM   1482  CB  GLN A 194     -28.638  32.770  28.759  1.00 34.02      A
ATOM   1483  CG  GLN A 194     -27.401  32.255  29.518  1.00 34.39      A
ATOM   1484  CD  GLN A 194     -27.168  30.763  29.340  1.00 33.77      A
ATOM   1485  OE1 GLN A 194     -27.973  29.952  29.772  1.00 36.58      A
ATOM   1486  NE2 GLN A 194     -26.066  30.400  28.696  1.00 32.88      A
ATOM   1487  C   GLN A 194     -29.212  34.450  30.514  1.00 35.32      A
ATOM   1488  O   GLN A 194     -30.288  34.102  31.019  1.00 36.58      A
ATOM   1489  N   TYR A 195     -28.229  35.017  31.210  1.00 34.39      A
ATOM   1490  CA  TYR A 195     -28.315  35.237  32.653  1.00 33.85      A
ATOM   1491  CB  TYR A 195     -26.963  34.958  33.315  1.00 32.05      A
ATOM   1492  CG  TYR A 195     -26.348  33.625  32.973  1.00 30.95      A
ATOM   1493  CD1 TYR A 195     -27.011  32.443  33.269  1.00 30.65      A
ATOM   1494  CE1 TYR A 195     -26.459  31.206  32.961  1.00 31.44      A
ATOM   1495  CD2 TYR A 195     -25.100  33.547  32.351  1.00 29.83      A
ATOM   1496  CE2 TYR A 195     -24.534  32.312  32.034  1.00 32.18      A
ATOM   1497  CZ  TYR A 195     -25.227  31.139  32.344  1.00 32.55      A
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ATOM	1498	OH	TYR	A	195	-24.711	29.898	32.027	1.00	32.05	A
ATOM	1499	C	TYR	A	195	-28.733	36.629	33.091	1.00	34.73	A
ATOM	1500	O	TYR	A	195	-28.266	37.635	32.548	1.00	36.73	A
ATOM	1501	N	SER	A	196	-29.613	36.675	34.088	1.00	34.70	A
ATOM	1502	CA	SER	A	196	-30.047	37.933	34.688	1.00	34.31	A
ATOM	1503	CB	SER	A	196	-31.341	37.741	35.460	1.00	33.56	A
ATOM	1504	OG	SER	A	196	-31.110	36.900	36.581	1.00	36.92	A
ATOM	1505	C	SER	A	196	-28.917	38.157	35.690	1.00	33.81	A
ATOM	1506	O	SER	A	196	-28.198	37.212	36.020	1.00	34.41	A
ATOM	1507	N	PRO	A	197	-28.754	39.384	36.204	1.00	32.85	A
ATOM	1508	CD	PRO	A	197	-29.594	40.580	36.028	1.00	34.05	A
ATOM	1509	CA	PRO	A	197	-27.676	39.638	37.165	1.00	32.06	A
ATOM	1510	CB	PRO	A	197	-28.084	40.963	37.788	1.00	31.86	A
ATOM	1511	CG	PRO	A	197	-28.736	41.672	36.639	1.00	32.33	A
ATOM	1512	C	PRO	A	197	-27.521	38.519	38.189	1.00	33.54	A
ATOM	1513	O	PRO	A	197	-26.445	37.924	38.307	1.00	32.96	A
ATOM	1514	N	LYS	A	198	-28.600	38.217	38.913	1.00	34.92	A
ATOM	1515	CA	LYS	A	198	-28.567	37.152	39.927	1.00	35.34	A
ATOM	1516	CB	LYS	A	198	-29.981	36.869	40.441	1.00	37.71	A
ATOM	1517	CG	LYS	A	198	-30.058	36.023	41.705	1.00	37.90	A
ATOM	1518	CD	LYS	A	198	-31.515	35.796	42.079	1.00	42.44	A
ATOM	1519	CE	LYS	A	198	-31.699	35.231	43.489	1.00	44.84	A
ATOM	1520	NZ	LYS	A	198	-33.153	34.950	43.792	1.00	46.50	A
ATOM	1521	C	LYS	A	198	-27.986	35.864	39.347	1.00	33.63	A
ATOM	1522	O	LYS	A	198	-27.064	35.274	39.896	1.00	33.50	A
ATOM	1523	N	GLN	A	199	-28.529	35.445	38.217	1.00	32.67	A
ATOM	1524	CA	GLN	A	199	-28.087	34.228	37.567	1.00	32.66	A
ATOM	1525	CB	GLN	A	199	-28.943	33.986	36.334	1.00	31.02	A
ATOM	1526	CG	GLN	A	199	-30.403	34.005	36.687	1.00	30.24	A
ATOM	1527	CD	GLN	A	199	-31.293	33.776	35.517	1.00	28.33	A
ATOM	1528	OE1	GLN	A	199	-31.142	34.408	34.474	1.00	33.66	A
ATOM	1529	NE2	GLN	A	199	-32.245	32.881	35.677	1.00	26.28	A
ATOM	1530	C	GLN	A	199	-26.618	34.219	37.203	1.00	33.04	A
ATOM	1531	O	GLN	A	199	-25.961	33.180	37.310	1.00	33.64	A
ATOM	1532	N	ARG	A	200	-26.103	35.368	36.777	1.00	32.64	A
ATOM	1533	CA	ARG	A	200	-24.700	35.471	36.400	1.00	33.12	A
ATOM	1534	CB	ARG	A	200	-24.435	36.829	35.763	1.00	31.20	A
ATOM	1535	CG	ARG	A	200	-23.019	37.039	35.279	1.00	30.88	A
ATOM	1536	CD	ARG	A	200	-22.731	38.535	35.036	1.00	31.68	A
ATOM	1537	NE	ARG	A	200	-21.354	38.756	34.601	1.00	33.92	A
ATOM	1538	CZ	ARG	A	200	-20.900	38.475	33.381	1.00	35.26	A
ATOM	1539	NH1	ARG	A	200	-21.716	37.972	32.462	1.00	35.56	A
ATOM	1540	NH2	ARG	A	200	-19.621	38.663	33.089	1.00	36.19	A
ATOM	1541	C	ARG	A	200	-23.846	35.296	37.653	1.00	35.35	A
ATOM	1542	O	ARG	A	200	-22.851	34.556	37.655	1.00	35.77	A
ATOM	1543	N	VAL	A	201	-24.249	35.970	38.726	1.00	36.44	A
ATOM	1544	CA	VAL	A	201	-23.527	35.875	39.993	1.00	37.68	A
ATOM	1545	CB	VAL	A	201	-24.207	36.716	41.081	1.00	36.96	A
ATOM	1546	CG1	VAL	A	201	-23.474	36.564	42.379	1.00	37.48	A
ATOM	1547	CG2	VAL	A	201	-24.213	38.163	40.669	1.00	41.01	A
ATOM	1548	C	VAL	A	201	-23.485	34.420	40.447	1.00	36.57	A
ATOM	1549	O	VAL	A	201	-22.468	33.933	40.954	1.00	33.92	A
ATOM	1550	N	GLU	A	202	-24.610	33.739	40.255	1.00	36.87	A
ATOM	1551	CA	GLU	A	202	-24.744	32.337	40.618	1.00	37.98	A
ATOM	1552	CB	GLU	A	202	-26.163	31.850	40.296	1.00	40.38	A
ATOM	1553	CG	GLU	A	202	-26.404	30.352	40.521	1.00	45.51	A
ATOM	1554	CD	GLU	A	202	-27.872	29.957	40.336	1.00	49.28	A
ATOM	1555	OE1	GLU	A	202	-28.662	30.801	39.845	1.00	49.65	A
ATOM	1556	OE2	GLU	A	202	-28.233	28.804	40.678	1.00	50.34	A
ATOM	1557	C	GLU	A	202	-23.728	31.517	39.840	1.00	36.99	A
ATOM	1558	O	GLU	A	202	-22.953	30.750	40.419	1.00	34.78	A
ATOM	1559	N	PHE	A	203	-23.728	31.706	38.523	1.00	35.48	A
ATOM	1560	CA	PHE	A	203	-22.828	30.976	37.659	1.00	34.79	A
ATOM	1561	CB	PHE	A	203	-23.105	31.317	36.204	1.00	36.10	A
ATOM	1562	CG	PHE	A	203	-22.240	30.567	35.235	1.00	37.42	A
ATOM	1563	CD1	PHE	A	203	-22.412	29.198	35.046	1.00	36.54	A
ATOM	1564	CD2	PHE	A	203	-21.228	31.219	34.538	1.00	37.35	A
ATOM	1565	CE1	PHE	A	203	-21.599	28.488	34.177	1.00	35.69	A
ATOM	1566	CE2	PHE	A	203	-20.407	30.515	33.667	1.00	38.54	A
ATOM	1567	CZ	PHE	A	203	-20.592	29.141	33.488	1.00	37.33	A
ATOM	1568	C	PHE	A	203	-21.368	31.257	37.972	1.00	34.95	A
ATOM	1569	O	PHE	A	203	-20.536	30.359	37.911	1.00	35.51	A
ATOM	1570	N	LEU	A	204	-21.046	32.501	38.297	1.00	33.95	A
ATOM	1571	CA	LEU	A	204	-19.664	32.839	38.601	1.00	32.84	A
ATOM	1572	CB	LEU	A	204	-19.502	34.360	38.703	1.00	31.57	A

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ATOM   1573  CG  LEU A 204     -19.558  35.155  37.394  1.00 31.90      A
ATOM   1574  CD1 LEU A 204     -19.435  36.636  37.668  1.00 30.23      A
ATOM   1575  CD2 LEU A 204     -18.431  34.704  36.488  1.00 30.20      A
ATOM   1576  C   LEU A 204     -19.192  32.180  39.894  1.00 33.29      A
ATOM   1577  O   LEU A 204     -18.122  31.576  39.946  1.00 32.58      A
ATOM   1578  N   VAL A 205     -20.005  32.298  40.934  1.00 34.22      A
ATOM   1579  CA  VAL A 205     -19.676  31.745  42.233  1.00 34.59      A
ATOM   1580  CB  VAL A 205     -20.650  32.262  43.300  1.00 33.96      A
ATOM   1581  CG1 VAL A 205     -20.514  31.457  44.584  1.00 33.43      A
ATOM   1582  CG2 VAL A 205     -20.357  33.729  43.572  1.00 32.79      A
ATOM   1583  C   VAL A 205     -19.656  30.229  42.243  1.00 36.41      A
ATOM   1584  O   VAL A 205     -18.724  29.626  42.780  1.00 36.85      A
ATOM   1585  N   ASN A 206     -20.669  29.601  41.662  1.00 36.88      A
ATOM   1586  CA  ASN A 206     -20.671  28.150  41.634  1.00 39.02      A
ATOM   1587  CB  ASN A 206     -21.945  27.611  40.976  1.00 41.18      A
ATOM   1588  CG  ASN A 206     -23.143  27.653  41.914  1.00 45.62      A
ATOM   1589  OD1 ASN A 206     -23.033  27.300  43.091  1.00 48.87      A
ATOM   1590  ND2 ASN A 206     -24.294  28.077  41.398  1.00 48.60      A
ATOM   1591  C   ASN A 206     -19.435  27.657  40.887  1.00 39.38      A
ATOM   1592  O   ASN A 206     -18.758  26.727  41.332  1.00 40.68      A
ATOM   1593  N   THR A 207     -19.130  28.298  39.764  1.00 38.14      A
ATOM   1594  CA  THR A 207     -17.977  27.921  38.964  1.00 37.44      A
ATOM   1595  CB  THR A 207     -17.839  28.815  37.706  1.00 37.53      A
ATOM   1596  OG1 THR A 207     -18.984  28.635  36.862  1.00 37.19      A
ATOM   1597  CG2 THR A 207     -16.574  28.457  36.921  1.00 35.16      A
ATOM   1598  C   THR A 207     -16.713  28.053  39.792  1.00 38.73      A
ATOM   1599  O   THR A 207     -15.901  27.126  39.860  1.00 39.37      A
ATOM   1600  N   TRP A 208     -16.557  29.209  40.429  1.00 38.79      A
ATOM   1601  CA  TRP A 208     -15.378  29.481  41.241  1.00 38.43      A
ATOM   1602  CB  TRP A 208     -15.455  30.895  41.816  1.00 37.71      A
ATOM   1603  CG  TRP A 208     -14.207  31.344  42.506  1.00 34.99      A
ATOM   1604  CD2 TRP A 208     -13.063  31.945  41.890  1.00 34.96      A
ATOM   1605  CE2 TRP A 208     -12.119  32.189  42.914  1.00 33.58      A
ATOM   1606  CE3 TRP A 208     -12.744  32.305  40.571  1.00 34.59      A
ATOM   1607  CD1 TRP A 208     -13.924  31.248  43.833  1.00 32.76      A
ATOM   1608  NE1 TRP A 208     -12.671  31.754  44.089  1.00 33.29      A
ATOM   1609  CZ2 TRP A 208     -10.869  32.775  42.662  1.00 32.84      A
ATOM   1610  CZ3 TRP A 208     -11.494  32.892  40.319  1.00 36.13      A
ATOM   1611  CH2 TRP A 208     -10.576  33.119  41.365  1.00 33.20      A
ATOM   1612  C   TRP A 208     -15.241  28.472  42.357  1.00 39.72      A
ATOM   1613  O   TRP A 208     -14.139  27.995  42.638  1.00 39.96      A
ATOM   1614  N   LYS A 209     -16.368  28.143  42.981  1.00 40.63      A
ATOM   1615  CA  LYS A 209     -16.388  27.183  44.078  1.00 42.10      A
ATOM   1616  CB  LYS A 209     -17.715  27.268  44.841  1.00 42.25      A
ATOM   1617  CG  LYS A 209     -17.839  28.479  45.756  1.00 45.37      A
ATOM   1618  CD  LYS A 209     -19.128  28.452  46.595  1.00 46.65      A
ATOM   1619  CE  LYS A 209     -19.176  29.627  47.584  1.00 48.32      A
ATOM   1620  NZ  LYS A 209     -20.394  29.636  48.456  1.00 49.29      A
ATOM   1621  C   LYS A 209     -16.164  25.738  43.632  1.00 42.64      A
ATOM   1622  O   LYS A 209     -15.874  24.871  44.458  1.00 44.36      A
ATOM   1623  N   SER A 210     -16.282  25.465  42.338  1.00 41.24      A
ATOM   1624  CA  SER A 210     -16.105  24.097  41.868  1.00 41.14      A
ATOM   1625  CB  SER A 210     -16.976  23.841  40.648  1.00 40.29      A
ATOM   1626  OG  SER A 210     -16.377  24.440  39.515  1.00 43.00      A
ATOM   1627  C   SER A 210     -14.662  23.778  41.514  1.00 41.44      A
ATOM   1628  O   SER A 210     -14.325  22.630  41.248  1.00 42.51      A
ATOM   1629  N   LYS A 211     -13.806  24.789  41.491  1.00 41.62      A
ATOM   1630  CA  LYS A 211     -12.408  24.548  41.168  1.00 42.22      A
ATOM   1631  CB  LYS A 211     -11.769  25.806  40.567  1.00 42.77      A
ATOM   1632  CG  LYS A 211     -12.519  26.399  39.373  1.00 43.79      A
ATOM   1633  CD  LYS A 211     -12.642  25.417  38.220  1.00 41.68      A
ATOM   1634  CE  LYS A 211     -13.489  25.996  37.104  1.00 39.91      A
ATOM   1635  NZ  LYS A 211     -13.649  25.019  35.987  1.00 42.01      A
ATOM   1636  C   LYS A 211     -11.691  24.172  42.459  1.00 42.11      A
ATOM   1637  O   LYS A 211     -11.968  24.741  43.510  1.00 40.32      A
ATOM   1638  N   LYS A 212     -10.780  23.210  42.383  1.00 42.60      A
ATOM   1639  CA  LYS A 212     -10.045  22.798  43.568  1.00 45.02      A
ATOM   1640  CB  LYS A 212      -9.086  21.652  43.219  1.00 49.73      A
ATOM   1641  CG  LYS A 212      -9.822  20.445  42.596  1.00 55.68      A
ATOM   1642  CD  LYS A 212      -8.981  19.162  42.531  1.00 58.78      A
ATOM   1643  CE  LYS A 212      -9.819  17.983  42.012  1.00 60.45      A
ATOM   1644  NZ  LYS A 212      -9.097  16.673  42.031  1.00 60.64      A
ATOM   1645  C   LYS A 212      -9.303  24.020  44.085  1.00 43.99      A
ATOM   1646  O   LYS A 212      -9.302  24.311  45.278  1.00 42.63      A
ATOM   1647  N   CYS A 213      -8.685  24.738  43.160  1.00 44.58      A
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ATOM   1648  CA  CYS A 213      -7.973  25.964  43.472  1.00 44.54      A
ATOM   1649  CB  CYS A 213      -6.486  25.696  43.672  1.00 43.67      A
ATOM   1650  SG  CYS A 213      -5.616  27.162  44.262  1.00 44.92      A
ATOM   1651  C   CYS A 213      -8.201  26.871  42.258  1.00 45.03      A
ATOM   1652  O   CYS A 213      -7.443  26.834  41.281  1.00 45.75      A
ATOM   1653  N   PRO A 214      -9.256  27.699  42.308  1.00 43.99      A
ATOM   1654  CD  PRO A 214     -10.152  27.900  43.461  1.00 44.09      A
ATOM   1655  CA  PRO A 214      -9.609  28.613  41.220  1.00 43.35      A
ATOM   1656  CB  PRO A 214     -10.972  29.149  41.653  1.00 42.60      A
ATOM   1657  CG  PRO A 214     -10.823  29.225  43.131  1.00 42.60      A
ATOM   1658  C   PRO A 214      -8.639  29.738  40.897  1.00 42.24      A
ATOM   1659  O   PRO A 214      -8.019  30.326  41.782  1.00 43.30      A
ATOM   1660  N   MET A 215      -8.517  30.003  39.601  1.00 39.88      A
ATOM   1661  CA  MET A 215      -7.709  31.081  39.071  1.00 37.25      A
ATOM   1662  CB  MET A 215      -6.435  30.572  38.420  1.00 37.59      A
ATOM   1663  CG  MET A 215      -5.499  31.691  37.918  1.00 39.20      A
ATOM   1664  SD  MET A 215      -5.957  32.498  36.345  1.00 37.98      A
ATOM   1665  CE  MET A 215      -5.223  31.388  35.205  1.00 35.67      A
ATOM   1666  C   MET A 215      -8.627  31.625  38.007  1.00 38.20      A
ATOM   1667  O   MET A 215      -9.231  30.859  37.248  1.00 38.74      A
ATOM   1668  N   GLY A 216      -8.769  32.940  37.960  1.00 36.90      A
ATOM   1669  CA  GLY A 216      -9.639  33.509  36.960  1.00 35.03      A
ATOM   1670  C   GLY A 216      -9.036  34.762  36.388  1.00 34.42      A
ATOM   1671  O   GLY A 216      -8.156  35.363  36.997  1.00 35.95      A
ATOM   1672  N   PHE A 217      -9.500  35.153  35.211  1.00 32.68      A
ATOM   1673  CA  PHE A 217      -9.004  36.359  34.583  1.00 31.82      A
ATOM   1674  CB  PHE A 217      -7.651  36.108  33.894  1.00 31.82      A
ATOM   1675  CG  PHE A 217      -7.707  35.142  32.728  1.00 31.24      A
ATOM   1676  CD1 PHE A 217      -7.378  33.799  32.901  1.00 30.23      A
ATOM   1677  CD2 PHE A 217      -8.047  35.586  31.445  1.00 31.28      A
ATOM   1678  CE1 PHE A 217      -7.384  32.917  31.820  1.00 28.55      A
ATOM   1679  CE2 PHE A 217      -8.057  34.704  30.354  1.00 28.42      A
ATOM   1680  CZ  PHE A 217      -7.723  33.372  30.545  1.00 29.39      A
ATOM   1681  C   PHE A 217      -9.982  36.903  33.564  1.00 30.98      A
ATOM   1682  O   PHE A 217     -10.734  36.156  32.946  1.00 31.55      A
ATOM   1683  N   SER A 218      -9.991  38.217  33.421  1.00 29.22      A
ATOM   1684  CA  SER A 218     -10.828  38.844  32.428  1.00 30.66      A
ATOM   1685  CB  SER A 218     -11.448  40.126  32.980  1.00 30.43      A
ATOM   1686  OG  SER A 218     -10.451  41.027  33.403  1.00 33.62      A
ATOM   1687  C   SER A 218      -9.831  39.156  31.306  1.00 31.60      A
ATOM   1688  O   SER A 218      -8.630  39.288  31.551  1.00 30.66      A
ATOM   1689  N   TYR A 219     -10.304  39.234  30.073  1.00 31.98      A
ATOM   1690  CA  TYR A 219      -9.403  39.535  28.973  1.00 32.41      A
ATOM   1691  CB  TYR A 219      -9.186  38.314  28.094  1.00 32.13      A
ATOM   1692  CG  TYR A 219      -8.191  38.554  26.992  1.00 33.48      A
ATOM   1693  CD1 TYR A 219      -6.824  38.410  27.216  1.00 33.98      A
ATOM   1694  CE1 TYR A 219      -5.899  38.629  26.190  1.00 34.25      A
ATOM   1695  CD2 TYR A 219      -8.613  38.926  25.717  1.00 35.01      A
ATOM   1696  CE2 TYR A 219      -7.699  39.147  24.688  1.00 34.32      A
ATOM   1697  CZ  TYR A 219      -6.346  38.996  24.930  1.00 34.00      A
ATOM   1698  OH  TYR A 219      -5.445  39.212  23.910  1.00 33.34      A
ATOM   1699  C   TYR A 219     -10.003  40.651  28.153  1.00 32.58      A
ATOM   1700  O   TYR A 219     -11.093  40.513  27.604  1.00 32.25      A
ATOM   1701  N   ASP A 220      -9.281  41.762  28.084  1.00 34.21      A
ATOM   1702  CA  ASP A 220      -9.736  42.931  27.353  1.00 34.41      A
ATOM   1703  CB  ASP A 220      -9.455  44.180  28.168  1.00 35.15      A
ATOM   1704  CG  ASP A 220      -9.718  45.433  27.398  1.00 37.63      A
ATOM   1705  OD1 ASP A 220     -10.762  45.492  26.720  1.00 38.65      A
ATOM   1706  OD2 ASP A 220      -8.884  46.363  27.475  1.00 42.34      A
ATOM   1707  C   ASP A 220      -9.095  43.066  25.986  1.00 36.09      A
ATOM   1708  O   ASP A 220      -7.901  43.357  25.866  1.00 35.78      A
ATOM   1709  N   THR A 221      -9.901  42.849  24.952  1.00 36.88      A
ATOM   1710  CA  THR A 221      -9.432  42.956  23.576  1.00 36.34      A
ATOM   1711  CB  THR A 221     -10.406  42.239  22.622  1.00 34.76      A
ATOM   1712  OG1 THR A 221     -10.462  40.848  22.957  1.00 32.17      A
ATOM   1713  CG2 THR A 221      -9.960  42.398  21.190  1.00 36.30      A
ATOM   1714  C   THR A 221      -9.336  44.435  23.189  1.00 37.09      A
ATOM   1715  O   THR A 221     -10.276  45.207  23.401  1.00 37.60      A
ATOM   1716  N   ARG A 222      -8.199  44.840  22.637  1.00 38.01      A
ATOM   1717  CA  ARG A 222      -8.039  46.230  22.234  1.00 38.22      A
ATOM   1718  CB  ARG A 222      -6.579  46.519  21.861  1.00 40.25      A
ATOM   1719  CG  ARG A 222      -6.332  47.978  21.503  1.00 44.84      A
ATOM   1720  CD  ARG A 222      -4.954  48.248  20.918  1.00 47.56      A
ATOM   1721  NE  ARG A 222      -5.076  49.235  19.846  1.00 56.27      A
ATOM   1722  CZ  ARG A 222      -4.515  50.444  19.842  1.00 59.48      A
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ATOM   1723  NH1 ARG A 222      -3.761  50.846  20.865  1.00 60.74      A
ATOM   1724  NH2 ARG A 222      -4.731  51.262  18.814  1.00 59.17      A
ATOM   1725  C   ARG A 222      -8.941  46.540  21.038  1.00 37.08      A
ATOM   1726  O   ARG A 222      -8.691  46.075  19.931  1.00 37.08      A
ATOM   1727  N   CYS A 223      -9.998  47.310  21.268  1.00 36.67      A
ATOM   1728  CA  CYS A 223     -10.916  47.701  20.196  1.00 39.18      A
ATOM   1729  CB  CYS A 223     -10.238  48.697  19.251  1.00 42.30      A
ATOM   1730  SG  CYS A 223      -9.605  50.181  20.058  1.00 49.83      A
ATOM   1731  C   CYS A 223     -11.396  46.517  19.382  1.00 38.06      A
ATOM   1732  O   CYS A 223     -11.142  46.433  18.166  1.00 37.15      A
ATOM   1733  N   PHE A 224     -12.116  45.626  20.056  1.00 36.06      A
ATOM   1734  CA  PHE A 224     -12.636  44.405  19.452  1.00 34.11      A
ATOM   1735  CB  PHE A 224     -13.652  43.764  20.402  1.00 31.11      A
ATOM   1736  CG  PHE A 224     -13.971  42.346  20.065  1.00 30.66      A
ATOM   1737  CD1 PHE A 224     -14.889  42.042  19.068  1.00 29.31      A
ATOM   1738  CD2 PHE A 224     -13.324  41.304  20.723  1.00 29.81      A
ATOM   1739  CE1 PHE A 224     -15.153  40.720  18.728  1.00 29.12      A
ATOM   1740  CE2 PHE A 224     -13.582  39.972  20.389  1.00 26.70      A
ATOM   1741  CZ  PHE A 224     -14.495  39.681  19.395  1.00 27.89      A
ATOM   1742  C   PHE A 224     -13.235  44.530  18.042  1.00 33.51      A
ATOM   1743  O   PHE A 224     -12.841  43.788  17.143  1.00 32.12      A
ATOM   1744  N   ASP A 225     -14.169  45.457  17.842  1.00 33.12      A
ATOM   1745  CA  ASP A 225     -14.802  45.616  16.529  1.00 33.83      A
ATOM   1746  CB  ASP A 225     -15.749  46.815  16.519  1.00 30.91      A
ATOM   1747  CG  ASP A 225     -17.052  46.536  17.230  1.00 30.53      A
ATOM   1748  OD1 ASP A 225     -17.258  45.384  17.668  1.00 29.42      A
ATOM   1749  OD2 ASP A 225     -17.873  47.473  17.344  1.00 29.44      A
ATOM   1750  C   ASP A 225     -13.842  45.741  15.352  1.00 34.25      A
ATOM   1751  O   ASP A 225     -14.005  45.062  14.331  1.00 35.56      A
ATOM   1752  N   SER A 226     -12.842  46.601  15.489  1.00 33.18      A
ATOM   1753  CA  SER A 226     -11.887  46.796  14.413  1.00 32.95      A
ATOM   1754  CB  SER A 226     -11.081  48.072  14.640  1.00 35.70      A
ATOM   1755  OG  SER A 226     -10.493  48.063  15.931  1.00 44.14      A
ATOM   1756  C   SER A 226     -10.955  45.609  14.285  1.00 31.97      A
ATOM   1757  O   SER A 226     -10.230  45.497  13.295  1.00 33.63      A
ATOM   1758  N   THR A 227     -10.961  44.712  15.268  1.00 29.38      A
ATOM   1759  CA  THR A 227     -10.084  43.551  15.165  1.00 27.94      A
ATOM   1760  CB  THR A 227      -9.614  43.014  16.543  1.00 25.75      A
ATOM   1761  OG1 THR A 227     -10.687  42.341  17.201  1.00 27.33      A
ATOM   1762  CG2 THR A 227      -9.137  44.148  17.404  1.00 28.14      A
ATOM   1763  C   THR A 227     -10.738  42.413  14.413  1.00 26.92      A
ATOM   1764  O   THR A 227     -10.056  41.479  14.000  1.00 27.64      A
ATOM   1765  N   VAL A 228     -12.053  42.487  14.240  1.00 25.50      A
ATOM   1766  CA  VAL A 228     -12.780  41.441  13.526  1.00 27.13      A
ATOM   1767  CB  VAL A 228     -14.309  41.565  13.756  1.00 29.40      A
ATOM   1768  CG1 VAL A 228     -15.049  40.565  12.885  1.00 30.49      A
ATOM   1769  CG2 VAL A 228     -14.634  41.331  15.219  1.00 27.91      A
ATOM   1770  C   VAL A 228     -12.469  41.531  12.030  1.00 26.34      A
ATOM   1771  O   VAL A 228     -12.696  42.560  11.400  1.00 26.25      A
ATOM   1772  N   THR A 229     -11.953  40.445  11.473  1.00 26.02      A
ATOM   1773  CA  THR A 229     -11.558  40.402  10.067  1.00 26.52      A
ATOM   1774  CB  THR A 229     -10.399  39.448   9.870  1.00 24.42      A
ATOM   1775  OG1 THR A 229     -10.872  38.117  10.084  1.00 23.27      A
ATOM   1776  CG2 THR A 229      -9.276  39.737  10.849  1.00 22.32      A
ATOM   1777  C   THR A 229     -12.653  39.924   9.122  1.00 29.26      A
ATOM   1778  O   THR A 229     -13.690  39.422   9.559  1.00 31.28      A
ATOM   1779  N   GLU A 230     -12.404  40.064   7.821  1.00 30.35      A
ATOM   1780  CA  GLU A 230     -13.359  39.607   6.815  1.00 32.42      A
ATOM   1781  CB  GLU A 230     -12.856  39.918   5.399  1.00 37.12      A
ATOM   1782  CG  GLU A 230     -12.556  41.408   5.155  1.00 43.83      A
ATOM   1783  CD  GLU A 230     -11.097  41.784   5.440  1.00 47.20      A
ATOM   1784  OE1 GLU A 230     -10.489  41.212   6.385  1.00 48.89      A
ATOM   1785  OE2 GLU A 230     -10.565  42.662   4.721  1.00 45.47      A
ATOM   1786  C   GLU A 230     -13.532  38.094   6.983  1.00 30.72      A
ATOM   1787  O   GLU A 230     -14.617  37.554   6.772  1.00 28.78      A
ATOM   1788  N   SER A 231     -12.455  37.420   7.380  1.00 28.15      A
ATOM   1789  CA  SER A 231     -12.500  35.983   7.594  1.00 26.71      A
ATOM   1790  CB  SER A 231     -11.098  35.437   7.819  1.00 23.97      A
ATOM   1791  OG  SER A 231     -11.117  34.020   7.897  1.00 21.75      A
ATOM   1792  C   SER A 231     -13.379  35.626   8.795  1.00 29.80      A
ATOM   1793  O   SER A 231     -14.102  34.616   8.764  1.00 30.72      A
ATOM   1794  N   ASP A 232     -13.310  36.441   9.851  1.00 28.85      A
ATOM   1795  CA  ASP A 232     -14.113  36.204  11.048  1.00 29.14      A
ATOM   1796  CB  ASP A 232     -13.787  37.218  12.145  1.00 30.77      A
ATOM   1797  CG  ASP A 232     -12.448  36.971  12.781  1.00 33.60      A
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ATOM   1798  OD1 ASP A 232     -12.039  35.791  12.861  1.00 35.31      A
ATOM   1799  OD2 ASP A 232     -11.812  37.953  13.211  1.00 34.51      A
ATOM   1800  C   ASP A 232     -15.593  36.312  10.725  1.00 29.57      A
ATOM   1801  O   ASP A 232     -16.412  35.524  11.198  1.00 29.81      A
ATOM   1802  N   ILE A 233     -15.931  37.308   9.921  1.00 28.98      A
ATOM   1803  CA  ILE A 233     -17.306  37.513   9.545  1.00 29.40      A
ATOM   1804  CB  ILE A 233     -17.461  38.906   8.910  1.00 29.17      A
ATOM   1805  CG2 ILE A 233     -18.818  39.053   8.239  1.00 28.49      A
ATOM   1806  CG1 ILE A 233     -17.294  39.956  10.013  1.00 28.79      A
ATOM   1807  CD1 ILE A 233     -17.376  41.370   9.537  1.00 31.17      A
ATOM   1808  C   ILE A 233     -17.802  36.392   8.630  1.00 29.70      A
ATOM   1809  O   ILE A 233     -18.959  35.980   8.715  1.00 31.03      A
ATOM   1810  N   ARG A 234     -16.929  35.876   7.773  1.00 29.02      A
ATOM   1811  CA  ARG A 234     -17.327  34.793   6.892  1.00 28.23      A
ATOM   1812  CB  ARG A 234     -16.305  34.607   5.768  1.00 28.93      A
ATOM   1813  CG  ARG A 234     -16.439  35.624   4.643  1.00 27.69      A
ATOM   1814  CD  ARG A 234     -15.249  35.551   3.702  1.00 35.61      A
ATOM   1815  NE  ARG A 234     -15.072  36.795   2.939  1.00 40.17      A
ATOM   1816  CZ  ARG A 234     -15.878  37.190   1.956  1.00 40.18      A
ATOM   1817  NH1 ARG A 234     -16.912  36.440   1.604  1.00 43.26      A
ATOM   1818  NH2 ARG A 234     -15.669  38.337   1.339  1.00 40.19      A
ATOM   1819  C   ARG A 234     -17.488  33.513   7.709  1.00 29.06      A
ATOM   1820  O   ARG A 234     -18.434  32.757   7.494  1.00 29.46      A
ATOM   1821  N   VAL A 235     -16.580  33.281   8.656  1.00 27.67      A
ATOM   1822  CA  VAL A 235     -16.663  32.110   9.526  1.00 25.53      A
ATOM   1823  CB  VAL A 235     -15.416  32.014  10.431  1.00 24.84      A
ATOM   1824  CG1 VAL A 235     -15.713  31.136  11.664  1.00 22.71      A
ATOM   1825  CG2 VAL A 235     -14.253  31.439   9.635  1.00 21.07      A
ATOM   1826  C   VAL A 235     -17.923  32.203  10.400  1.00 26.89      A
ATOM   1827  O   VAL A 235     -18.523  31.203  10.779  1.00 28.61      A
ATOM   1828  N   GLU A 236     -18.320  33.420  10.720  1.00 27.69      A
ATOM   1829  CA  GLU A 236     -19.499  33.653  11.523  1.00 28.34      A
ATOM   1830  CB  GLU A 236     -19.510  35.125  11.902  1.00 30.95      A
ATOM   1831  CG  GLU A 236     -20.809  35.696  12.388  1.00 37.14      A
ATOM   1832  CD  GLU A 236     -20.708  37.214  12.557  1.00 41.23      A
ATOM   1833  OE1 GLU A 236     -21.767  37.900  12.558  1.00 41.56      A
ATOM   1834  OE2 GLU A 236     -19.557  37.710  12.684  1.00 40.45      A
ATOM   1835  C   GLU A 236     -20.706  33.271  10.673  1.00 30.36      A
ATOM   1836  O   GLU A 236     -21.678  32.679  11.160  1.00 30.57      A
ATOM   1837  N   GLU A 237     -20.634  33.587   9.382  1.00 31.06      A
ATOM   1838  CA  GLU A 237     -21.729  33.254   8.473  1.00 29.35      A
ATOM   1839  CB  GLU A 237     -21.499  33.853   7.085  1.00 30.54      A
ATOM   1840  CG  GLU A 237     -22.751  33.892   6.195  1.00 31.12      A
ATOM   1841  CD  GLU A 237     -22.425  33.823   4.703  1.00 31.25      A
ATOM   1842  OE1 GLU A 237     -21.310  34.241   4.321  1.00 32.66      A
ATOM   1843  OE2 GLU A 237     -23.282  33.363   3.914  1.00 27.40      A
ATOM   1844  C   GLU A 237     -21.816  31.743   8.348  1.00 28.51      A
ATOM   1845  O   GLU A 237     -22.899  31.178   8.431  1.00 28.99      A
ATOM   1846  N   SER A 238     -20.671  31.092   8.161  1.00 25.94      A
ATOM   1847  CA  SER A 238     -20.647  29.644   8.010  1.00 26.08      A
ATOM   1848  CB  SER A 238     -19.205  29.112   7.989  1.00 23.81      A
ATOM   1849  OG  SER A 238     -18.712  28.844   9.286  1.00 19.79      A
ATOM   1850  C   SER A 238     -21.437  28.992   9.136  1.00 27.81      A
ATOM   1851  O   SER A 238     -22.061  27.949   8.942  1.00 27.45      A
ATOM   1852  N   ILE A 239     -21.418  29.614  10.313  1.00 29.36      A
ATOM   1853  CA  ILE A 239     -22.159  29.082  11.453  1.00 29.65      A
ATOM   1854  CB  ILE A 239     -21.701  29.715  12.782  1.00 29.60      A
ATOM   1855  CG2 ILE A 239     -22.718  29.413  13.878  1.00 30.33      A
ATOM   1856  CG1 ILE A 239     -20.320  29.176  13.165  1.00 27.60      A
ATOM   1857  CD1 ILE A 239     -19.654  29.951  14.271  1.00 27.49      A
ATOM   1858  C   ILE A 239     -23.656  29.311  11.278  1.00 30.47      A
ATOM   1859  O   ILE A 239     -24.439  28.396  11.500  1.00 31.82      A
ATOM   1860  N   TYR A 240     -24.063  30.520  10.886  1.00 31.13      A
ATOM   1861  CA  TYR A 240     -25.488  30.785  10.682  1.00 30.75      A
ATOM   1862  CB  TYR A 240     -25.740  32.218  10.208  1.00 32.51      A
ATOM   1863  CG  TYR A 240     -25.197  33.296  11.113  1.00 34.87      A
ATOM   1864  CD1 TYR A 240     -25.273  33.170  12.501  1.00 35.42      A
ATOM   1865  CE1 TYR A 240     -24.774  34.160  13.337  1.00 34.20      A
ATOM   1866  CD2 TYR A 240     -24.609  34.452  10.583  1.00 33.19      A
ATOM   1867  CE2 TYR A 240     -24.109  35.444  11.413  1.00 32.23      A
ATOM   1868  CZ  TYR A 240     -24.196  35.285  12.787  1.00 32.89      A
ATOM   1869  OH  TYR A 240     -23.695  36.242  13.623  1.00 36.49      A
ATOM   1870  C   TYR A 240     -26.009  29.841   9.611  1.00 30.42      A
ATOM   1871  O   TYR A 240     -27.145  29.386   9.673  1.00 31.28      A
ATOM   1872  N   GLN A 241     -25.153  29.545   8.636  1.00 30.54      A
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ATOM   1873  CA  GLN A 241     -25.489  28.670   7.519  1.00 28.77      A
ATOM   1874  CB  GLN A 241     -24.365  28.701   6.493  1.00 28.32      A
ATOM   1875  CG  GLN A 241     -24.212  30.050   5.800  1.00 29.54      A
ATOM   1876  CD  GLN A 241     -25.397  30.384   4.925  1.00 29.37      A
ATOM   1877  OE1 GLN A 241     -26.324  29.593   4.804  1.00 32.55      A
ATOM   1878  NE2 GLN A 241     -25.371  31.555   4.301  1.00 30.72      A
ATOM   1879  C   GLN A 241     -25.802  27.226   7.903  1.00 28.67      A
ATOM   1880  O   GLN A 241     -26.374  26.478   7.108  1.00 30.07      A
ATOM   1881  N   CYS A 242     -25.435  26.827   9.113  1.00 27.17      A
ATOM   1882  CA  CYS A 242     -25.724  25.475   9.555  1.00 26.62      A
ATOM   1883  CB  CYS A 242     -24.774  25.070  10.678  1.00 24.56      A
ATOM   1884  SG  CYS A 242     -23.064  24.916  10.137  1.00 30.69      A
ATOM   1885  C   CYS A 242     -27.178  25.384  10.025  1.00 26.78      A
ATOM   1886  O   CYS A 242     -27.702  24.291  10.240  1.00 25.95      A
ATOM   1887  N   CYS A 243     -27.833  26.533  10.175  1.00 25.88      A
ATOM   1888  CA  CYS A 243     -29.227  26.550  10.608  1.00 27.97      A
ATOM   1889  CB  CYS A 243     -29.651  27.961  11.006  1.00 25.74      A
ATOM   1890  SG  CYS A 243     -28.994  28.562  12.541  1.00 31.74      A
ATOM   1891  C   CYS A 243     -30.163  26.091   9.497  1.00 29.79      A
ATOM   1892  O   CYS A 243     -29.800  26.103   8.325  1.00 30.96      A
ATOM   1893  N   ASP A 244     -31.368  25.673   9.865  1.00 30.71      A
ATOM   1894  CA  ASP A 244     -32.344  25.312   8.850  1.00 29.31      A
ATOM   1895  CB  ASP A 244     -33.389  24.345   9.405  1.00 27.33      A
ATOM   1896  CG  ASP A 244     -34.382  23.897   8.345  1.00 30.81      A
ATOM   1897  OD1 ASP A 244     -35.495  24.474   8.265  1.00 29.77      A
ATOM   1898  OD2 ASP A 244     -34.036  22.973   7.570  1.00 32.04      A
ATOM   1899  C   ASP A 244     -32.952  26.692   8.557  1.00 27.67      A
ATOM   1900  O   ASP A 244     -33.368  27.385   9.475  1.00 27.79      A
ATOM   1901  N   LEU A 245     -32.988  27.092   7.292  1.00 26.21      A
ATOM   1902  CA  LEU A 245     -33.482  28.418   6.943  1.00 25.71      A
ATOM   1903  CB  LEU A 245     -32.283  29.336   6.723  1.00 23.91      A
ATOM   1904  CG  LEU A 245     -31.300  29.496   7.879  1.00 24.02      A
ATOM   1905  CD1 LEU A 245     -29.923  29.911   7.363  1.00 20.37      A
ATOM   1906  CD2 LEU A 245     -31.854  30.537   8.837  1.00 21.80      A
ATOM   1907  C   LEU A 245     -34.356  28.480   5.694  1.00 25.66      A
ATOM   1908  O   LEU A 245     -34.168  27.710   4.760  1.00 25.35      A
ATOM   1909  N   ALA A 246     -35.303  29.415   5.672  1.00 26.70      A
ATOM   1910  CA  ALA A 246     -36.158  29.588   4.498  1.00 28.01      A
ATOM   1911  CB  ALA A 246     -37.233  30.612   4.787  1.00 26.97      A
ATOM   1912  C   ALA A 246     -35.230  30.087   3.386  1.00 28.41      A
ATOM   1913  O   ALA A 246     -34.319  30.864   3.650  1.00 27.12      A
ATOM   1914  N   PRO A 247     -35.450  29.653   2.133  1.00 30.12      A
ATOM   1915  CD  PRO A 247     -36.593  28.867   1.638  1.00 30.53      A
ATOM   1916  CA  PRO A 247     -34.599  30.076   1.013  1.00 30.35      A
ATOM   1917  CB  PRO A 247     -35.431  29.701  -0.214  1.00 31.64      A
ATOM   1918  CG  PRO A 247     -36.141  28.485   0.222  1.00 29.81      A
ATOM   1919  C   PRO A 247     -34.210  31.551   1.015  1.00 31.02      A
ATOM   1920  O   PRO A 247     -33.019  31.887   0.972  1.00 30.64      A
ATOM   1921  N   GLU A 248     -35.209  32.429   1.072  1.00 31.37      A
ATOM   1922  CA  GLU A 248     -34.948  33.867   1.059  1.00 32.09      A
ATOM   1923  CB  GLU A 248     -36.265  34.638   1.004  1.00 33.88      A
ATOM   1924  CG  GLU A 248     -37.203  34.153  -0.076  1.00 33.44      A
ATOM   1925  CD  GLU A 248     -38.114  35.240  -0.569  1.00 35.88      A
ATOM   1926  OE1 GLU A 248     -38.429  36.157   0.221  1.00 37.06      A
ATOM   1927  OE2 GLU A 248     -38.523  35.171  -1.748  1.00 36.82      A
ATOM   1928  C   GLU A 248     -34.121  34.335   2.254  1.00 30.93      A
ATOM   1929  O   GLU A 248     -33.392  35.318   2.164  1.00 33.19      A
ATOM   1930  N   ALA A 249     -34.241  33.628   3.370  1.00 29.36      A
ATOM   1931  CA  ALA A 249     -33.482  33.952   4.572  1.00 28.49      A
ATOM   1932  CB  ALA A 249     -33.995  33.143   5.748  1.00 25.77      A
ATOM   1933  C   ALA A 249     -32.023  33.621   4.329  1.00 28.54      A
ATOM   1934  O   ALA A 249     -31.132  34.408   4.634  1.00 29.37      A
ATOM   1935  N   ARG A 250     -31.789  32.437   3.777  1.00 28.65      A
ATOM   1936  CA  ARG A 250     -30.445  31.976   3.488  1.00 27.41      A
ATOM   1937  CB  ARG A 250     -30.507  30.560   2.915  1.00 26.74      A
ATOM   1938  CG  ARG A 250     -29.165  29.858   2.790  1.00 27.36      A
ATOM   1939  CD  ARG A 250     -29.348  28.429   2.276  1.00 28.94      A
ATOM   1940  NE  ARG A 250     -29.854  27.498   3.289  1.00 28.86      A
ATOM   1941  CZ  ARG A 250     -29.148  27.074   4.340  1.00 28.77      A
ATOM   1942  NH1 ARG A 250     -27.904  27.496   4.524  1.00 27.36      A
ATOM   1943  NH2 ARG A 250     -29.675  26.216   5.202  1.00 26.11      A
ATOM   1944  C   ARG A 250     -29.782  32.936   2.505  1.00 28.68      A
ATOM   1945  O   ARG A 250     -28.581  33.197   2.592  1.00 28.39      A
ATOM   1946  N   GLN A 251     -30.567  33.475   1.575  1.00 29.13      A
ATOM   1947  CA  GLN A 251     -30.019  34.412   0.599  1.00 29.45      A
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ATOM	1948	CB	GLN	A	251	-30.980	34.618	-0.579	1.00	30.42	A
ATOM	1949	CG	GLN	A	251	-30.393	35.442	-1.735	1.00	29.52	A
ATOM	1950	CD	GLN	A	251	-29.228	34.734	-2.427	1.00	31.06	A
ATOM	1951	OE1	GLN	A	251	-28.069	35.101	-2.252	1.00	30.77	A
ATOM	1952	NE2	GLN	A	251	-29.540	33.709	-3.210	1.00	31.56	A
ATOM	1953	C	GLN	A	251	-29.795	35.745	1.292	1.00	29.51	A
ATOM	1954	O	GLN	A	251	-28.756	36.384	1.107	1.00	29.26	A
ATOM	1955	N	ALA	A	252	-30.777	36.164	2.091	1.00	28.20	A
ATOM	1956	CA	ALA	A	252	-30.673	37.432	2.805	1.00	27.25	A
ATOM	1957	CB	ALA	A	252	-31.918	37.673	3.626	1.00	25.69	A
ATOM	1958	C	ALA	A	252	-29.429	37.438	3.695	1.00	26.63	A
ATOM	1959	O	ALA	A	252	-28.734	38.447	3.779	1.00	27.49	A
ATOM	1960	N	ILE	A	253	-29.140	36.312	4.340	1.00	24.32	A
ATOM	1961	CA	ILE	A	253	-27.971	36.223	5.199	1.00	24.22	A
ATOM	1962	CB	ILE	A	253	-27.980	34.915	6.015	1.00	23.34	A
ATOM	1963	CG2	ILE	A	253	-26.635	34.708	6.725	1.00	19.98	A
ATOM	1964	CG1	ILE	A	253	-29.128	34.949	7.013	1.00	20.46	A
ATOM	1965	CD1	ILE	A	253	-29.199	33.724	7.841	1.00	18.71	A
ATOM	1966	C	ILE	A	253	-26.700	36.283	4.353	1.00	26.12	A
ATOM	1967	O	ILE	A	253	-25.727	36.947	4.721	1.00	27.75	A
ATOM	1968	N	ARG	A	254	-26.707	35.588	3.222	1.00	26.64	A
ATOM	1969	CA	ARG	A	254	-25.555	35.576	2.318	1.00	27.87	A
ATOM	1970	CB	ARG	A	254	-25.835	34.641	1.130	1.00	27.07	A
ATOM	1971	CG	ARG	A	254	-24.715	34.511	0.090	1.00	25.53	A
ATOM	1972	CD	ARG	A	254	-23.693	33.454	0.454	1.00	27.18	A
ATOM	1973	NE	ARG	A	254	-22.602	33.950	1.290	1.00	27.69	A
ATOM	1974	CZ	ARG	A	254	-21.712	34.845	0.883	1.00	27.74	A
ATOM	1975	NH1	ARG	A	254	-21.798	35.336	-0.346	1.00	28.54	A
ATOM	1976	NH2	ARG	A	254	-20.737	35.238	1.692	1.00	25.98	A
ATOM	1977	C	ARG	A	254	-25.271	36.998	1.812	1.00	27.61	A
ATOM	1978	O	ARG	A	254	-24.156	37.495	1.931	1.00	30.97	A
ATOM	1979	N	SER	A	255	-26.288	37.645	1.253	1.00	26.73	A
ATOM	1980	CA	SER	A	255	-26.157	38.999	0.734	1.00	26.32	A
ATOM	1981	CB	SER	A	255	-27.481	39.451	0.129	1.00	24.87	A
ATOM	1982	OG	SER	A	255	-27.815	38.652	-0.987	1.00	23.72	A
ATOM	1983	C	SER	A	255	-25.730	39.995	1.805	1.00	27.53	A
ATOM	1984	O	SER	A	255	-24.867	40.846	1.574	1.00	27.63	A
ATOM	1985	N	LEU	A	256	-26.344	39.892	2.977	1.00	27.81	A
ATOM	1986	CA	LEU	A	256	-26.022	40.783	4.078	1.00	27.35	A
ATOM	1987	CB	LEU	A	256	-26.976	40.513	5.243	1.00	24.38	A
ATOM	1988	CG	LEU	A	256	-28.377	41.091	4.972	1.00	24.20	A
ATOM	1989	CD1	LEU	A	256	-29.363	40.710	6.083	1.00	23.05	A
ATOM	1990	CD2	LEU	A	256	-28.270	42.599	4.872	1.00	20.73	A
ATOM	1991	C	LEU	A	256	-24.556	40.651	4.506	1.00	28.14	A
ATOM	1992	O	LEU	A	256	-23.893	41.647	4.827	1.00	28.28	A
ATOM	1993	N	THR	A	257	-24.044	39.425	4.495	1.00	28.99	A
ATOM	1994	CA	THR	A	257	-22.652	39.187	4.861	1.00	29.00	A
ATOM	1995	CB	THR	A	257	-22.335	37.671	4.873	1.00	29.43	A
ATOM	1996	OG1	THR	A	257	-23.077	37.044	5.922	1.00	29.58	A
ATOM	1997	CG2	THR	A	257	-20.855	37.419	5.115	1.00	26.06	A
ATOM	1998	C	THR	A	257	-21.719	39.904	3.885	1.00	29.85	A
ATOM	1999	O	THR	A	257	-20.887	40.707	4.302	1.00	30.12	A
ATOM	2000	N	GLU	A	258	-21.875	39.626	2.591	1.00	30.82	A
ATOM	2001	CA	GLU	A	258	-21.044	40.239	1.539	1.00	32.93	A
ATOM	2002	CB	GLU	A	258	-21.307	39.583	0.168	1.00	34.85	A
ATOM	2003	CG	GLU	A	258	-20.766	38.188	0.008	1.00	37.71	A
ATOM	2004	CD	GLU	A	258	-19.307	38.096	0.393	1.00	38.02	A
ATOM	2005	OE1	GLU	A	258	-18.447	38.585	-0.374	1.00	36.95	A
ATOM	2006	OE2	GLU	A	258	-19.034	37.543	1.479	1.00	36.13	A
ATOM	2007	C	GLU	A	258	-21.208	41.745	1.336	1.00	31.61	A
ATOM	2008	O	GLU	A	258	-20.246	42.444	1.016	1.00	32.17	A
ATOM	2009	N	ARG	A	259	-22.424	42.241	1.507	1.00	28.83	A
ATOM	2010	CA	ARG	A	259	-22.682	43.645	1.259	1.00	29.25	A
ATOM	2011	CB	ARG	A	259	-24.014	43.778	0.520	1.00	27.69	A
ATOM	2012	CG	ARG	A	259	-24.074	42.909	-0.727	1.00	28.42	A
ATOM	2013	CD	ARG	A	259	-25.482	42.766	-1.274	1.00	26.44	A
ATOM	2014	NE	ARG	A	259	-26.034	44.061	-1.636	1.00	26.78	A
ATOM	2015	CZ	ARG	A	259	-27.310	44.275	-1.920	1.00	24.66	A
ATOM	2016	NH1	ARG	A	259	-28.177	43.275	-1.892	1.00	27.10	A
ATOM	2017	NH2	ARG	A	259	-27.719	45.495	-2.202	1.00	22.35	A
ATOM	2018	C	ARG	A	259	-22.681	44.566	2.459	1.00	29.13	A
ATOM	2019	O	ARG	A	259	-22.566	45.778	2.293	1.00	30.92	A
ATOM	2020	N	LEU	A	260	-22.804	44.013	3.664	1.00	29.48	A
ATOM	2021	CA	LEU	A	260	-22.849	44.855	4.856	1.00	27.66	A
ATOM	2022	CB	LEU	A	260	-24.278	44.909	5.403	1.00	25.73	A

ATOM	2023	CG	LEU	A	260	-24.517	45.791	6.632	1.00	25.31	A
ATOM	2024	CD1	LEU	A	260	-24.189	47.238	6.302	1.00	27.50	A
ATOM	2025	CD2	LEU	A	260	-25.968	45.657	7.086	1.00	25.31	A
ATOM	2026	C	LEU	A	260	-21.909	44.467	5.980	1.00	27.47	A
ATOM	2027	O	LEU	A	260	-21.087	45.277	6.423	1.00	27.59	A
ATOM	2028	N	TYR	A	261	-22.018	43.226	6.437	1.00	26.51	A
ATOM	2029	CA	TYR	A	261	-21.198	42.777	7.551	1.00	26.96	A
ATOM	2030	CB	TYR	A	261	-21.680	41.402	8.024	1.00	25.45	A
ATOM	2031	CG	TYR	A	261	-23.151	41.394	8.422	1.00	24.63	A
ATOM	2032	CD1	TYR	A	261	-23.765	42.537	8.948	1.00	22.34	A
ATOM	2033	CE1	TYR	A	261	-25.105	42.539	9.287	1.00	22.99	A
ATOM	2034	CD2	TYR	A	261	-23.930	40.249	8.255	1.00	25.58	A
ATOM	2035	CE2	TYR	A	261	-25.273	40.238	8.591	1.00	24.83	A
ATOM	2036	CZ	TYR	A	261	-25.855	41.384	9.104	1.00	26.60	A
ATOM	2037	OH	TYR	A	261	-27.191	41.366	9.422	1.00	27.13	A
ATOM	2038	C	TYR	A	261	-19.679	42.782	7.368	1.00	28.68	A
ATOM	2039	O	TYR	A	261	-18.970	43.289	8.231	1.00	30.72	A
ATOM	2040	N	ILE	A	262	-19.171	42.245	6.263	1.00	30.08	A
ATOM	2041	CA	ILE	A	262	-17.722	42.216	6.051	1.00	30.27	A
ATOM	2042	CB	ILE	A	262	-17.345	41.396	4.804	1.00	30.15	A
ATOM	2043	CG2	ILE	A	262	-17.804	39.968	4.952	1.00	27.57	A
ATOM	2044	CG1	ILE	A	262	-17.995	42.008	3.575	1.00	30.95	A
ATOM	2045	CD1	ILE	A	262	-17.598	41.315	2.309	1.00	35.20	A
ATOM	2046	C	ILE	A	262	-17.106	43.609	5.902	1.00	30.46	A
ATOM	2047	O	ILE	A	262	-15.903	43.788	6.117	1.00	28.82	A
ATOM	2048	N	GLY	A	263	-17.933	44.587	5.534	1.00	30.57	A
ATOM	2049	CA	GLY	A	263	-17.448	45.945	5.363	1.00	30.18	A
ATOM	2050	C	GLY	A	263	-18.249	46.757	4.363	1.00	31.18	A
ATOM	2051	O	GLY	A	263	-19.293	46.311	3.891	1.00	32.06	A
ATOM	2052	N	GLY	A	264	-17.764	47.951	4.035	1.00	31.10	A
ATOM	2053	CA	GLY	A	264	-18.464	48.791	3.079	1.00	31.93	A
ATOM	2054	C	GLY	A	264	-18.153	50.277	3.205	1.00	33.94	A
ATOM	2055	O	GLY	A	264	-17.412	50.704	4.101	1.00	35.12	A
ATOM	2056	N	PRO	A	265	-18.717	51.102	2.314	1.00	33.02	A
ATOM	2057	CD	PRO	A	265	-19.725	50.754	1.300	1.00	31.54	A
ATOM	2058	CA	PRO	A	265	-18.486	52.548	2.346	1.00	31.68	A
ATOM	2059	CB	PRO	A	265	-19.230	53.032	1.109	1.00	30.71	A
ATOM	2060	CG	PRO	A	265	-20.378	52.087	1.044	1.00	31.23	A
ATOM	2061	C	PRO	A	265	-19.021	53.196	3.623	1.00	31.37	A
ATOM	2062	O	PRO	A	265	-19.988	52.718	4.209	1.00	31.54	A
ATOM	2063	N	LEU	A	266	-18.380	54.284	4.044	1.00	31.37	A
ATOM	2064	CA	LEU	A	266	-18.787	55.032	5.235	1.00	29.32	A
ATOM	2065	CB	LEU	A	266	-17.632	55.113	6.237	1.00	26.81	A
ATOM	2066	CG	LEU	A	266	-17.138	53.763	6.753	1.00	26.14	A
ATOM	2067	CD1	LEU	A	266	-15.807	53.942	7.444	1.00	25.77	A
ATOM	2068	CD2	LEU	A	266	-18.169	53.154	7.686	1.00	24.43	A
ATOM	2069	C	LEU	A	266	-19.185	56.433	4.802	1.00	29.27	A
ATOM	2070	O	LEU	A	266	-18.456	57.088	4.062	1.00	29.53	A
ATOM	2071	N	THR	A	267	-20.338	56.894	5.268	1.00	29.94	A
ATOM	2072	CA	THR	A	267	-20.830	58.220	4.903	1.00	32.57	A
ATOM	2073	CB	THR	A	267	-22.079	58.094	3.985	1.00	31.23	A
ATOM	2074	OG1	THR	A	267	-21.703	57.427	2.768	1.00	28.11	A
ATOM	2075	CG2	THR	A	267	-22.679	59.476	3.675	1.00	25.36	A
ATOM	2076	C	THR	A	267	-21.186	59.045	6.141	1.00	34.94	A
ATOM	2077	O	THR	A	267	-21.870	58.551	7.036	1.00	36.02	A
ATOM	2078	N	ASN	A	268	-20.721	60.293	6.205	1.00	36.49	A
ATOM	2079	CA	ASN	A	268	-21.029	61.120	7.364	1.00	39.27	A
ATOM	2080	CB	ASN	A	268	-20.005	62.255	7.539	1.00	42.45	A
ATOM	2081	CG	ASN	A	268	-19.974	63.222	6.361	1.00	44.61	A
ATOM	2082	OD1	ASN	A	268	-21.008	63.557	5.777	1.00	43.84	A
ATOM	2083	ND2	ASN	A	268	-18.779	63.693	6.025	1.00	42.80	A
ATOM	2084	C	ASN	A	268	-22.433	61.685	7.254	1.00	39.57	A
ATOM	2085	O	ASN	A	268	-23.129	61.439	6.270	1.00	39.87	A
ATOM	2086	N	SER	A	269	-22.848	62.435	8.269	1.00	40.91	A
ATOM	2087	CA	SER	A	269	-24.190	63.018	8.300	1.00	42.85	A
ATOM	2088	CB	SER	A	269	-24.447	63.663	9.665	1.00	43.04	A
ATOM	2089	OG	SER	A	269	-23.481	64.664	9.935	1.00	41.61	A
ATOM	2090	C	SER	A	269	-24.429	64.052	7.204	1.00	44.16	A
ATOM	2091	O	SER	A	269	-25.562	64.468	6.966	1.00	43.73	A
ATOM	2092	N	LYS	A	270	-23.356	64.477	6.550	1.00	45.56	A
ATOM	2093	CA	LYS	A	270	-23.464	65.460	5.486	1.00	45.67	A
ATOM	2094	CB	LYS	A	270	-22.246	66.389	5.496	1.00	46.39	A
ATOM	2095	CG	LYS	A	270	-22.203	67.321	6.698	1.00	46.59	A
ATOM	2096	CD	LYS	A	270	-21.150	68.385	6.524	1.00	47.56	A
ATOM	2097	CE	LYS	A	270	-21.299	69.454	7.582	1.00	49.55	A

ATOM	2098	NZ	LYS	A	270	-20.404	70.617	7.322	1.00	49.82	A
ATOM	2099	C	LYS	A	270	-23.584	64.773	4.136	1.00	45.72	A
ATOM	2100	O	LYS	A	270	-23.680	65.437	3.103	1.00	47.16	A
ATOM	2101	N	GLY	A	271	-23.579	63.443	4.147	1.00	44.01	A
ATOM	2102	CA	GLY	A	271	-23.694	62.696	2.908	1.00	42.28	A
ATOM	2103	C	GLY	A	271	-22.398	62.631	2.126	1.00	42.08	A
ATOM	2104	O	GLY	A	271	-22.398	62.322	0.936	1.00	40.84	A
ATOM	2105	N	GLN	A	272	-21.294	62.932	2.801	1.00	42.50	A
ATOM	2106	CA	GLN	A	272	-19.976	62.900	2.184	1.00	42.62	A
ATOM	2107	CB	GLN	A	272	-19.081	63.977	2.809	1.00	42.78	A
ATOM	2108	CG	GLN	A	272	-19.643	65.392	2.656	1.00	44.22	A
ATOM	2109	CD	GLN	A	272	-18.799	66.462	3.343	1.00	45.13	A
ATOM	2110	OE1	GLN	A	272	-18.629	66.459	4.566	1.00	45.48	A
ATOM	2111	NE2	GLN	A	272	-18.275	67.387	2.554	1.00	45.86	A
ATOM	2112	C	GLN	A	272	-19.384	61.513	2.407	1.00	43.23	A
ATOM	2113	O	GLN	A	272	-19.837	60.777	3.280	1.00	44.78	A
ATOM	2114	N	ASN	A	273	-18.379	61.157	1.617	1.00	42.63	A
ATOM	2115	CA	ASN	A	273	-17.734	59.851	1.717	1.00	42.00	A
ATOM	2116	CB	ASN	A	273	-17.239	59.446	0.328	1.00	41.11	A
ATOM	2117	CG	ASN	A	273	-16.756	58.021	0.269	1.00	43.06	A
ATOM	2118	OD1	ASN	A	273	-16.156	57.606	-0.718	1.00	43.11	A
ATOM	2119	ND2	ASN	A	273	-17.019	57.257	1.320	1.00	45.53	A
ATOM	2120	C	ASN	A	273	-16.561	59.909	2.704	1.00	42.33	A
ATOM	2121	O	ASN	A	273	-15.549	60.529	2.408	1.00	44.26	A
ATOM	2122	N	CYS	A	274	-16.689	59.263	3.863	1.00	42.41	A
ATOM	2123	CA	CYS	A	274	-15.627	59.271	4.883	1.00	42.53	A
ATOM	2124	CB	CYS	A	274	-16.208	59.042	6.279	1.00	42.43	A
ATOM	2125	SG	CYS	A	274	-17.030	60.451	7.005	1.00	50.72	A
ATOM	2126	C	CYS	A	274	-14.522	58.243	4.678	1.00	41.71	A
ATOM	2127	O	CYS	A	274	-13.373	58.476	5.052	1.00	41.96	A
ATOM	2128	N	GLY	A	275	-14.874	57.099	4.109	1.00	40.71	A
ATOM	2129	CA	GLY	A	275	-13.888	56.059	3.899	1.00	38.23	A
ATOM	2130	C	GLY	A	275	-14.494	54.682	3.683	1.00	37.45	A
ATOM	2131	O	GLY	A	275	-15.555	54.542	3.069	1.00	35.17	A
ATOM	2132	N	TYR	A	276	-13.830	53.658	4.208	1.00	36.73	A
ATOM	2133	CA	TYR	A	276	-14.302	52.293	4.028	1.00	35.94	A
ATOM	2134	CB	TYR	A	276	-13.611	51.684	2.813	1.00	34.57	A
ATOM	2135	CG	TYR	A	276	-14.372	50.572	2.167	1.00	34.56	A
ATOM	2136	CD1	TYR	A	276	-15.359	50.844	1.225	1.00	34.31	A
ATOM	2137	CE1	TYR	A	276	-16.067	49.822	0.609	1.00	36.30	A
ATOM	2138	CD2	TYR	A	276	-14.107	49.242	2.489	1.00	36.18	A
ATOM	2139	CE2	TYR	A	276	-14.812	48.203	1.878	1.00	37.27	A
ATOM	2140	CZ	TYR	A	276	-15.790	48.503	0.938	1.00	37.42	A
ATOM	2141	OH	TYR	A	276	-16.486	47.490	0.321	1.00	38.38	A
ATOM	2142	C	TYR	A	276	-14.030	51.413	5.241	1.00	35.37	A
ATOM	2143	O	TYR	A	276	-12.920	51.428	5.789	1.00	35.83	A
ATOM	2144	N	ARG	A	277	-15.044	50.639	5.634	1.00	33.43	A
ATOM	2145	CA	ARG	A	277	-14.966	49.718	6.770	1.00	32.41	A
ATOM	2146	CB	ARG	A	277	-16.278	49.744	7.557	1.00	32.09	A
ATOM	2147	CG	ARG	A	277	-16.425	48.634	8.595	1.00	31.93	A
ATOM	2148	CD	ARG	A	277	-17.786	48.712	9.264	1.00	32.54	A
ATOM	2149	NE	ARG	A	277	-18.862	48.674	8.280	1.00	33.94	A
ATOM	2150	CZ	ARG	A	277	-19.404	47.562	7.790	1.00	33.67	A
ATOM	2151	NH1	ARG	A	277	-18.983	46.376	8.197	1.00	33.19	A
ATOM	2152	NH2	ARG	A	277	-20.360	47.640	6.872	1.00	34.44	A
ATOM	2153	C	ARG	A	277	-14.711	48.292	6.298	1.00	32.75	A
ATOM	2154	O	ARG	A	277	-15.384	47.814	5.389	1.00	35.27	A
ATOM	2155	N	ARG	A	278	-13.742	47.616	6.907	1.00	32.13	A
ATOM	2156	CA	ARG	A	278	-13.430	46.228	6.554	1.00	31.78	A
ATOM	2157	CB	ARG	A	278	-12.105	46.131	5.790	1.00	32.03	A
ATOM	2158	CG	ARG	A	278	-12.170	46.745	4.425	1.00	34.90	A
ATOM	2159	CD	ARG	A	278	-10.891	46.541	3.662	1.00	40.29	A
ATOM	2160	NE	ARG	A	278	-10.694	47.609	2.682	1.00	47.02	A
ATOM	2161	CZ	ARG	A	278	-10.397	48.868	3.007	1.00	48.67	A
ATOM	2162	NH1	ARG	A	278	-10.263	49.203	4.286	1.00	49.23	A
ATOM	2163	NH2	ARG	A	278	-10.235	49.793	2.062	1.00	48.51	A
ATOM	2164	C	ARG	A	278	-13.350	45.410	7.832	1.00	31.46	A
ATOM	2165	O	ARG	A	278	-12.599	44.434	7.927	1.00	30.39	A
ATOM	2166	N	CYS	A	279	-14.131	45.839	8.819	1.00	30.66	A
ATOM	2167	CA	CYS	A	279	-14.187	45.186	10.118	1.00	30.21	A
ATOM	2168	CB	CYS	A	279	-13.259	45.886	11.112	1.00	27.67	A
ATOM	2169	SG	CYS	A	279	-13.740	47.601	11.467	1.00	30.31	A
ATOM	2170	C	CYS	A	279	-15.632	45.281	10.595	1.00	29.65	A
ATOM	2171	O	CYS	A	279	-16.505	45.729	9.849	1.00	29.04	A
ATOM	2172	N	ARG	A	280	-15.870	44.880	11.839	1.00	28.17	A

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ATOM   2173  CA  ARG A 280     -17.207  44.884  12.405  1.00 27.12      A
ATOM   2174  CB  ARG A 280     -17.204  44.309  13.819  1.00 26.19      A
ATOM   2175  CG  ARG A 280     -18.586  44.305  14.475  1.00 26.96      A
ATOM   2176  CD  ARG A 280     -19.430  43.144  13.997  1.00 25.78      A
ATOM   2177  NE  ARG A 280     -18.858  41.887  14.458  1.00 28.29      A
ATOM   2178  CZ  ARG A 280     -19.149  40.693  13.959  1.00 28.73      A
ATOM   2179  NH1 ARG A 280     -20.017  40.572  12.971  1.00 33.46      A
ATOM   2180  NH2 ARG A 280     -18.558  39.617  14.445  1.00 30.46      A
ATOM   2181  C   ARG A 280     -17.862  46.234  12.471  1.00 27.13      A
ATOM   2182  O   ARG A 280     -17.250  47.205  12.907  1.00 27.52      A
ATOM   2183  N   ALA A 281     -19.117  46.275  12.036  1.00 28.20      A
ATOM   2184  CA  ALA A 281     -19.929  47.480  12.094  1.00 29.34      A
ATOM   2185  CB  ALA A 281     -21.017  47.437  11.048  1.00 30.71      A
ATOM   2186  C   ALA A 281     -20.541  47.380  13.492  1.00 31.00      A
ATOM   2187  O   ALA A 281     -21.027  46.319  13.883  1.00 31.30      A
ATOM   2188  N   SER A 282     -20.522  48.468  14.249  1.00 30.83      A
ATOM   2189  CA  SER A 282     -21.051  48.413  15.595  1.00 30.58      A
ATOM   2190  CB  SER A 282     -20.480  49.550  16.431  1.00 30.05      A
ATOM   2191  OG  SER A 282     -21.042  50.781  16.031  1.00 32.64      A
ATOM   2192  C   SER A 282     -22.563  48.478  15.643  1.00 31.63      A
ATOM   2193  O   SER A 282     -23.173  48.029  16.616  1.00 33.07      A
ATOM   2194  N   GLY A 283     -23.171  49.027  14.597  1.00 31.03      A
ATOM   2195  CA  GLY A 283     -24.615  49.165  14.592  1.00 29.97      A
ATOM   2196  C   GLY A 283     -25.444  48.275  13.687  1.00 30.39      A
ATOM   2197  O   GLY A 283     -26.330  48.772  12.978  1.00 31.99      A
ATOM   2198  N   VAL A 284     -25.165  46.973  13.683  1.00 27.67      A
ATOM   2199  CA  VAL A 284     -25.951  46.045  12.878  1.00 26.20      A
ATOM   2200  CB  VAL A 284     -25.120  45.364  11.767  1.00 27.00      A
ATOM   2201  CG1 VAL A 284     -24.848  46.356  10.651  1.00 24.46      A
ATOM   2202  CG2 VAL A 284     -23.813  44.808  12.331  1.00 27.49      A
ATOM   2203  C   VAL A 284     -26.537  45.006  13.827  1.00 28.03      A
ATOM   2204  O   VAL A 284     -26.145  44.931  14.994  1.00 29.70      A
ATOM   2205  N   LEU A 285     -27.486  44.220  13.340  1.00 27.28      A
ATOM   2206  CA  LEU A 285     -28.146  43.231  14.173  1.00 27.20      A
ATOM   2207  CB  LEU A 285     -29.337  42.647  13.404  1.00 26.58      A
ATOM   2208  CG  LEU A 285     -30.219  41.604  14.099  1.00 27.93      A
ATOM   2209  CD1 LEU A 285     -30.869  42.224  15.324  1.00 26.04      A
ATOM   2210  CD2 LEU A 285     -31.281  41.092  13.133  1.00 25.06      A
ATOM   2211  C   LEU A 285     -27.225  42.106  14.646  1.00 28.95      A
ATOM   2212  O   LEU A 285     -27.326  41.642  15.781  1.00 29.43      A
ATOM   2213  N   THR A 286     -26.315  41.681  13.781  1.00 29.03      A
ATOM   2214  CA  THR A 286     -25.425  40.574  14.106  1.00 29.55      A
ATOM   2215  CB  THR A 286     -24.937  39.877  12.822  1.00 29.97      A
ATOM   2216  OG1 THR A 286     -24.438  40.870  11.915  1.00 34.03      A
ATOM   2217  CG2 THR A 286     -26.069  39.107  12.151  1.00 28.52      A
ATOM   2218  C   THR A 286     -24.194  40.948  14.903  1.00 29.62      A
ATOM   2219  O   THR A 286     -23.331  40.101  15.106  1.00 29.40      A
ATOM   2220  N   THR A 287     -24.102  42.199  15.349  1.00 28.91      A
ATOM   2221  CA  THR A 287     -22.925  42.652  16.093  1.00 29.84      A
ATOM   2222  CB  THR A 287     -22.989  44.151  16.369  1.00 31.88      A
ATOM   2223  OG1 THR A 287     -23.248  44.839  15.145  1.00 36.26      A
ATOM   2224  CG2 THR A 287     -21.667  44.646  16.950  1.00 31.89      A
ATOM   2225  C   THR A 287     -22.681  41.951  17.426  1.00 29.57      A
ATOM   2226  O   THR A 287     -21.566  41.541  17.717  1.00 29.39      A
ATOM   2227  N   SER A 288     -23.716  41.833  18.245  1.00 30.88      A
ATOM   2228  CA  SER A 288     -23.576  41.175  19.532  1.00 31.59      A
ATOM   2229  CB  SER A 288     -24.843  41.382  20.371  1.00 33.23      A
ATOM   2230  OG  SER A 288     -24.660  40.961  21.713  1.00 33.36      A
ATOM   2231  C   SER A 288     -23.322  39.685  19.329  1.00 31.50      A
ATOM   2232  O   SER A 288     -22.390  39.121  19.896  1.00 32.86      A
ATOM   2233  N   CYS A 289     -24.152  39.061  18.505  1.00 30.51      A
ATOM   2234  CA  CYS A 289     -24.048  37.637  18.229  1.00 31.37      A
ATOM   2235  CB  CYS A 289     -25.210  37.199  17.333  1.00 31.41      A
ATOM   2236  SG  CYS A 289     -25.256  35.428  16.992  1.00 33.62      A
ATOM   2237  C   CYS A 289     -22.725  37.276  17.567  1.00 31.64      A
ATOM   2238  O   CYS A 289     -22.099  36.270  17.906  1.00 31.45      A
ATOM   2239  N   GLY A 290     -22.305  38.101  16.617  1.00 31.95      A
ATOM   2240  CA  GLY A 290     -21.062  37.845  15.920  1.00 31.51      A
ATOM   2241  C   GLY A 290     -19.880  37.947  16.855  1.00 32.76      A
ATOM   2242  O   GLY A 290     -19.023  37.060  16.883  1.00 34.05      A
ATOM   2243  N   ASN A 291     -19.835  39.024  17.631  1.00 31.95      A
ATOM   2244  CA  ASN A 291     -18.742  39.223  18.564  1.00 31.89      A
ATOM   2245  CB  ASN A 291     -18.827  40.605  19.220  1.00 32.40      A
ATOM   2246  CG  ASN A 291     -18.459  41.735  18.261  1.00 33.43      A
ATOM   2247  OD1 ASN A 291     -17.837  41.505  17.215  1.00 31.33      A
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ATOM   2248  ND2 ASN A 291     -18.827  42.964  18.623  1.00 31.23      A
ATOM   2249  C   ASN A 291     -18.692  38.146  19.635  1.00 32.19      A
ATOM   2250  O   ASN A 291     -17.609  37.691  19.992  1.00 34.40      A
ATOM   2251  N   THR A 292     -19.847  37.730  20.152  1.00 30.68      A
ATOM   2252  CA  THR A 292     -19.855  36.690  21.183  1.00 28.98      A
ATOM   2253  CB  THR A 292     -21.269  36.383  21.729  1.00 27.63      A
ATOM   2254  OG1 THR A 292     -21.901  37.586  22.172  1.00 26.78      A
ATOM   2255  CG2 THR A 292     -21.174  35.429  22.893  1.00 26.66      A
ATOM   2256  C   THR A 292     -19.326  35.398  20.581  1.00 29.08      A
ATOM   2257  O   THR A 292     -18.552  34.680  21.215  1.00 29.39      A
ATOM   2258  N   LEU A 293     -19.747  35.108  19.352  1.00 27.23      A
ATOM   2259  CA  LEU A 293     -19.314  33.891  18.685  1.00 27.26      A
ATOM   2260  CB  LEU A 293     -20.101  33.656  17.389  1.00 25.95      A
ATOM   2261  CG  LEU A 293     -21.534  33.118  17.474  1.00 26.99      A
ATOM   2262  CD1 LEU A 293     -22.145  33.111  16.081  1.00 28.27      A
ATOM   2263  CD2 LEU A 293     -21.552  31.707  18.068  1.00 25.40      A
ATOM   2264  C   LEU A 293     -17.837  33.939  18.373  1.00 27.04      A
ATOM   2265  O   LEU A 293     -17.114  32.995  18.677  1.00 28.65      A
ATOM   2266  N   THR A 294     -17.391  35.036  17.767  1.00 25.84      A
ATOM   2267  CA  THR A 294     -15.992  35.192  17.400  1.00 24.49      A
ATOM   2268  CB  THR A 294     -15.751  36.520  16.699  1.00 23.26      A
ATOM   2269  OG1 THR A 294     -16.513  36.561  15.493  1.00 25.92      A
ATOM   2270  CG2 THR A 294     -14.294  36.678  16.355  1.00 21.27      A
ATOM   2271  C   THR A 294     -15.086  35.139  18.609  1.00 26.38      A
ATOM   2272  O   THR A 294     -14.085  34.434  18.608  1.00 27.10      A
ATOM   2273  N   CYS A 295     -15.440  35.904  19.636  1.00 27.55      A
ATOM   2274  CA  CYS A 295     -14.661  35.961  20.864  1.00 28.51      A
ATOM   2275  CB  CYS A 295     -15.238  37.017  21.802  1.00 29.89      A
ATOM   2276  SG  CYS A 295     -14.421  37.094  23.403  1.00 32.57      A
ATOM   2277  C   CYS A 295     -14.633  34.620  21.574  1.00 29.04      A
ATOM   2278  O   CYS A 295     -13.636  34.262  22.193  1.00 30.25      A
ATOM   2279  N   TYR A 296     -15.737  33.888  21.499  1.00 28.38      A
ATOM   2280  CA  TYR A 296     -15.818  32.579  22.126  1.00 28.53      A
ATOM   2281  CB  TYR A 296     -17.275  32.092  22.139  1.00 27.63      A
ATOM   2282  CG  TYR A 296     -17.455  30.643  22.541  1.00 25.96      A
ATOM   2283  CD1 TYR A 296     -17.402  29.633  21.595  1.00 25.31      A
ATOM   2284  CE1 TYR A 296     -17.541  28.302  21.956  1.00 26.02      A
ATOM   2285  CD2 TYR A 296     -17.655  30.283  23.878  1.00 25.96      A
ATOM   2286  CE2 TYR A 296     -17.797  28.949  24.255  1.00 23.98      A
ATOM   2287  CZ  TYR A 296     -17.739  27.964  23.285  1.00 25.74      A
ATOM   2288  OH  TYR A 296     -17.877  26.637  23.625  1.00 26.65      A
ATOM   2289  C   TYR A 296     -14.937  31.577  21.386  1.00 29.94      A
ATOM   2290  O   TYR A 296     -14.238  30.772  22.006  1.00 31.78      A
ATOM   2291  N   LEU A 297     -14.968  31.629  20.057  1.00 29.88      A
ATOM   2292  CA  LEU A 297     -14.181  30.711  19.254  1.00 29.77      A
ATOM   2293  CB  LEU A 297     -14.490  30.900  17.771  1.00 28.81      A
ATOM   2294  CG  LEU A 297     -13.479  30.380  16.738  1.00 26.18      A
ATOM   2295  CD1 LEU A 297     -13.201  28.896  16.916  1.00 23.31      A
ATOM   2296  CD2 LEU A 297     -14.046  30.648  15.364  1.00 24.34      A
ATOM   2297  C   LEU A 297     -12.704  30.916  19.500  1.00 31.34      A
ATOM   2298  O   LEU A 297     -11.975  29.969  19.771  1.00 33.45      A
ATOM   2299  N   LYS A 298     -12.263  32.162  19.417  1.00 32.16      A
ATOM   2300  CA  LYS A 298     -10.861  32.471  19.622  1.00 31.56      A
ATOM   2301  CB  LYS A 298     -10.612  33.940  19.303  1.00 28.53      A
ATOM   2302  CG  LYS A 298     -10.925  34.310  17.856  1.00 26.07      A
ATOM   2303  CD  LYS A 298     -10.586  35.767  17.591  1.00 28.40      A
ATOM   2304  CE  LYS A 298     -10.904  36.182  16.173  1.00 27.65      A
ATOM   2305  NZ  LYS A 298     -10.738  37.652  16.005  1.00 25.00      A
ATOM   2306  C   LYS A 298     -10.375  32.139  21.030  1.00 33.01      A
ATOM   2307  O   LYS A 298      -9.313  31.537  21.202  1.00 35.23      A
ATOM   2308  N   ALA A 299     -11.160  32.512  22.035  1.00 34.11      A
ATOM   2309  CA  ALA A 299     -10.794  32.263  23.431  1.00 33.21      A
ATOM   2310  CB  ALA A 299     -11.802  32.950  24.369  1.00 30.37      A
ATOM   2311  C   ALA A 299     -10.700  30.771  23.761  1.00 32.66      A
ATOM   2312  O   ALA A 299      -9.791  30.339  24.466  1.00 33.45      A
ATOM   2313  N   THR A 300     -11.640  29.987  23.247  1.00 31.34      A
ATOM   2314  CA  THR A 300     -11.646  28.559  23.509  1.00 30.28      A
ATOM   2315  CB  THR A 300     -12.870  27.897  22.864  1.00 30.10      A
ATOM   2316  OG1 THR A 300     -14.059  28.498  23.387  1.00 31.89      A
ATOM   2317  CG2 THR A 300     -12.898  26.417  23.160  1.00 25.91      A
ATOM   2318  C   THR A 300     -10.376  27.900  22.980  1.00 30.76      A
ATOM   2319  O   THR A 300      -9.715  27.135  23.691  1.00 29.25      A
ATOM   2320  N   ALA A 301     -10.040  28.208  21.729  1.00 30.07      A
ATOM   2321  CA  ALA A 301      -8.857  27.651  21.091  1.00 29.54      A
ATOM   2322  CB  ALA A 301      -8.835  28.015  19.613  1.00 28.41      A
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ATOM   2323  C   ALA A 301      -7.617  28.185  21.796  1.00 30.58      A
ATOM   2324  O   ALA A 301      -6.676  27.425  22.070  1.00 32.53      A
ATOM   2325  N   ALA A 302      -7.615  29.480  22.101  1.00 27.87      A
ATOM   2326  CA  ALA A 302      -6.482  30.064  22.803  1.00 28.65      A
ATOM   2327  CB  ALA A 302      -6.703  31.554  23.037  1.00 26.39      A
ATOM   2328  C   ALA A 302      -6.284  29.338  24.143  1.00 30.56      A
ATOM   2329  O   ALA A 302      -5.155  29.081  24.549  1.00 32.75      A
ATOM   2330  N   CYS A 303      -7.367  29.001  24.834  1.00 29.06      A
ATOM   2331  CA  CYS A 303      -7.218  28.303  26.097  1.00 30.04      A
ATOM   2332  CB  CYS A 303      -8.578  28.020  26.724  1.00 29.99      A
ATOM   2333  SG  CYS A 303      -9.259  29.408  27.621  1.00 34.80      A
ATOM   2334  C   CYS A 303      -6.479  26.994  25.875  1.00 31.33      A
ATOM   2335  O   CYS A 303      -5.624  26.596  26.667  1.00 33.11      A
ATOM   2336  N   ARG A 304      -6.815  26.319  24.788  1.00 32.04      A
ATOM   2337  CA  ARG A 304      -6.177  25.059  24.476  1.00 30.66      A
ATOM   2338  CB  ARG A 304      -6.873  24.417  23.288  1.00 28.02      A
ATOM   2339  CG  ARG A 304      -8.324  24.094  23.571  1.00 26.16      A
ATOM   2340  CD  ARG A 304      -8.919  23.291  22.455  1.00 24.89      A
ATOM   2341  NE  ARG A 304     -10.345  23.074  22.634  1.00 24.97      A
ATOM   2342  CZ  ARG A 304     -11.075  22.314  21.826  1.00 27.58      A
ATOM   2343  NH1 ARG A 304     -10.500  21.713  20.793  1.00 28.19      A
ATOM   2344  NH2 ARG A 304     -12.368  22.131  22.058  1.00 28.13      A
ATOM   2345  C   ARG A 304      -4.711  25.312  24.173  1.00 32.44      A
ATOM   2346  O   ARG A 304      -3.830  24.681  24.747  1.00 32.48      A
ATOM   2347  N   ALA A 305      -4.446  26.249  23.276  1.00 33.27      A
ATOM   2348  CA  ALA A 305      -3.070  26.553  22.938  1.00 34.90      A
ATOM   2349  CB  ALA A 305      -3.006  27.791  22.053  1.00 35.72      A
ATOM   2350  C   ALA A 305      -2.260  26.779  24.209  1.00 36.25      A
ATOM   2351  O   ALA A 305      -1.149  26.275  24.330  1.00 37.54      A
ATOM   2352  N   ALA A 306      -2.831  27.522  25.157  1.00 36.28      A
ATOM   2353  CA  ALA A 306      -2.157  27.845  26.409  1.00 36.42      A
ATOM   2354  CB  ALA A 306      -2.728  29.122  26.985  1.00 35.37      A
ATOM   2355  C   ALA A 306      -2.201  26.742  27.459  1.00 38.09      A
ATOM   2356  O   ALA A 306      -1.516  26.829  28.474  1.00 38.81      A
ATOM   2357  N   LYS A 307      -3.013  25.717  27.237  1.00 39.24      A
ATOM   2358  CA  LYS A 307      -3.085  24.608  28.179  1.00 40.43      A
ATOM   2359  CB  LYS A 307      -1.693  24.017  28.394  1.00 42.06      A
ATOM   2360  CG  LYS A 307      -1.258  23.082  27.293  1.00 44.84      A
ATOM   2361  CD  LYS A 307       0.085  23.473  26.720  1.00 48.80      A
ATOM   2362  CE  LYS A 307       0.578  22.391  25.767  1.00 53.35      A
ATOM   2363  NZ  LYS A 307      -0.473  22.030  24.764  1.00 56.58      A
ATOM   2364  C   LYS A 307      -3.700  24.926  29.531  1.00 41.28      A
ATOM   2365  O   LYS A 307      -3.416  24.252  30.527  1.00 40.04      A
ATOM   2366  N   LEU A 308      -4.539  25.952  29.577  1.00 42.21      A
ATOM   2367  CA  LEU A 308      -5.202  26.289  30.820  1.00 42.56      A
ATOM   2368  CB  LEU A 308      -6.083  27.516  30.624  1.00 41.65      A
ATOM   2369  CG  LEU A 308      -5.367  28.862  30.799  1.00 41.02      A
ATOM   2370  CD1 LEU A 308      -3.919  28.750  30.414  1.00 40.15      A
ATOM   2371  CD2 LEU A 308      -6.069  29.918  29.954  1.00 41.97      A
ATOM   2372  C   LEU A 308      -6.024  25.062  31.187  1.00 44.77      A
ATOM   2373  O   LEU A 308      -6.661  24.447  30.329  1.00 43.47      A
ATOM   2374  N   GLN A 309      -6.000  24.702  32.463  1.00 47.82      A
ATOM   2375  CA  GLN A 309      -6.698  23.511  32.924  1.00 49.53      A
ATOM   2376  CB  GLN A 309      -5.918  22.892  34.088  1.00 52.25      A
ATOM   2377  CG  GLN A 309      -5.762  21.378  34.016  1.00 59.78      A
ATOM   2378  CD  GLN A 309      -4.925  20.907  32.818  1.00 64.55      A
ATOM   2379  OE1 GLN A 309      -4.661  19.705  32.665  1.00 66.69      A
ATOM   2380  NE2 GLN A 309      -4.508  21.850  31.966  1.00 65.55      A
ATOM   2381  C   GLN A 309      -8.149  23.703  33.340  1.00 49.03      A
ATOM   2382  O   GLN A 309      -8.478  24.640  34.069  1.00 49.38      A
ATOM   2383  N   ASP A 310      -9.004  22.802  32.860  1.00 47.54      A
ATOM   2384  CA  ASP A 310     -10.428  22.791  33.198  1.00 46.27      A
ATOM   2385  CB  ASP A 310     -10.600  22.145  34.579  1.00 49.91      A
ATOM   2386  CG  ASP A 310     -12.053  21.853  34.923  1.00 52.47      A
ATOM   2387  OD1 ASP A 310     -12.329  21.604  36.116  1.00 54.17      A
ATOM   2388  OD2 ASP A 310     -12.912  21.861  34.014  1.00 52.45      A
ATOM   2389  C   ASP A 310     -11.081  24.174  33.185  1.00 44.03      A
ATOM   2390  O   ASP A 310     -11.666  24.605  34.182  1.00 42.71      A
ATOM   2391  N   CYS A 311     -10.994  24.847  32.040  1.00 42.20      A
ATOM   2392  CA  CYS A 311     -11.547  26.191  31.862  1.00 40.29      A
ATOM   2393  CB  CYS A 311     -11.004  26.819  30.583  1.00 39.17      A
ATOM   2394  SG  CYS A 311      -9.261  27.102  30.578  1.00 41.78      A
ATOM   2395  C   CYS A 311     -13.062  26.322  31.808  1.00 38.66      A
ATOM   2396  O   CYS A 311     -13.759  25.456  31.279  1.00 37.93      A
ATOM   2397  N   THR A 312     -13.559  27.428  32.348  1.00 36.61      A
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ATOM   2398  CA  THR A 312     -14.983  27.730  32.303  1.00 36.40      A
ATOM   2399  CB  THR A 312     -15.679  27.525  33.656  1.00 35.80      A
ATOM   2400  OG1 THR A 312     -15.572  26.152  34.046  1.00 38.38      A
ATOM   2401  CG2 THR A 312     -17.146  27.865  33.538  1.00 34.41      A
ATOM   2402  C   THR A 312     -15.082  29.192  31.890  1.00 35.64      A
ATOM   2403  O   THR A 312     -14.620  30.073  32.607  1.00 37.69      A
ATOM   2404  N   MET A 313     -15.676  29.441  30.729  1.00 34.86      A
ATOM   2405  CA  MET A 313     -15.801  30.793  30.185  1.00 34.63      A
ATOM   2406  CB  MET A 313     -15.312  30.835  28.739  1.00 36.29      A
ATOM   2407  CG  MET A 313     -13.842  31.061  28.549  1.00 39.13      A
ATOM   2408  SD  MET A 313     -13.379  30.594  26.875  1.00 44.31      A
ATOM   2409  CE  MET A 313     -14.838  31.148  25.947  1.00 39.18      A
ATOM   2410  C   MET A 313     -17.200  31.358  30.177  1.00 33.90      A
ATOM   2411  O   MET A 313     -18.189  30.626  30.134  1.00 34.35      A
ATOM   2412  N   LEU A 314     -17.255  32.682  30.173  1.00 31.54      A
ATOM   2413  CA  LEU A 314     -18.500  33.415  30.123  1.00 29.62      A
ATOM   2414  CB  LEU A 314     -18.801  34.038  31.482  1.00 29.14      A
ATOM   2415  CG  LEU A 314     -20.255  34.435  31.711  1.00 30.53      A
ATOM   2416  CD1 LEU A 314     -21.126  33.190  31.575  1.00 31.96      A
ATOM   2417  CD2 LEU A 314     -20.422  35.059  33.098  1.00 30.68      A
ATOM   2418  C   LEU A 314     -18.226  34.495  29.083  1.00 29.65      A
ATOM   2419  O   LEU A 314     -17.255  35.245  29.207  1.00 29.71      A
ATOM   2420  N   VAL A 315     -19.057  34.558  28.046  1.00 29.36      A
ATOM   2421  CA  VAL A 315     -18.861  35.542  26.987  1.00 29.55      A
ATOM   2422  CB  VAL A 315     -18.533  34.867  25.612  1.00 31.72      A
ATOM   2423  CG1 VAL A 315     -18.148  35.936  24.587  1.00 32.19      A
ATOM   2424  CG2 VAL A 315     -17.410  33.849  25.761  1.00 28.45      A
ATOM   2425  C   VAL A 315     -20.085  36.413  26.782  1.00 29.50      A
ATOM   2426  O   VAL A 315     -21.208  35.910  26.748  1.00 27.65      A
ATOM   2427  N   ASN A 316     -19.848  37.719  26.653  1.00 29.32      A
ATOM   2428  CA  ASN A 316     -20.891  38.712  26.412  1.00 29.91      A
ATOM   2429  CB  ASN A 316     -21.146  39.571  27.648  1.00 29.89      A
ATOM   2430  CG  ASN A 316     -21.889  38.837  28.733  1.00 30.49      A
ATOM   2431  OD1 ASN A 316     -21.329  37.978  29.415  1.00 30.41      A
ATOM   2432  ND2 ASN A 316     -23.162  39.178  28.907  1.00 30.22      A
ATOM   2433  C   ASN A 316     -20.375  39.616  25.305  1.00 31.02      A
ATOM   2434  O   ASN A 316     -19.938  40.740  25.558  1.00 32.39      A
ATOM   2435  N   GLY A 317     -20.420  39.137  24.073  1.00 30.67      A
ATOM   2436  CA  GLY A 317     -19.906  39.950  22.994  1.00 31.82      A
ATOM   2437  C   GLY A 317     -18.398  39.986  23.109  1.00 32.49      A
ATOM   2438  O   GLY A 317     -17.756  38.941  23.153  1.00 34.41      A
ATOM   2439  N   ASP A 318     -17.818  41.174  23.180  1.00 33.71      A
ATOM   2440  CA  ASP A 318     -16.369  41.280  23.282  1.00 33.41      A
ATOM   2441  CB  ASP A 318     -15.893  42.648  22.778  1.00 32.38      A
ATOM   2442  CG  ASP A 318     -16.395  43.795  23.629  1.00 33.99      A
ATOM   2443  OD1 ASP A 318     -17.580  43.793  24.004  1.00 39.21      A
ATOM   2444  OD2 ASP A 318     -15.614  44.716  23.918  1.00 35.91      A
ATOM   2445  C   ASP A 318     -15.863  41.050  24.696  1.00 33.40      A
ATOM   2446  O   ASP A 318     -14.666  40.859  24.894  1.00 35.87      A
ATOM   2447  N   ASP A 319     -16.757  41.053  25.681  1.00 32.72      A
ATOM   2448  CA  ASP A 319     -16.329  40.855  27.065  1.00 32.17      A
ATOM   2449  CB  ASP A 319     -17.367  41.408  28.043  1.00 34.50      A
ATOM   2450  CG  ASP A 319     -16.744  41.891  29.350  1.00 36.13      A
ATOM   2451  OD1 ASP A 319     -16.318  41.037  30.160  1.00 38.85      A
ATOM   2452  OD2 ASP A 319     -16.673  43.128  29.561  1.00 35.54      A
ATOM   2453  C   ASP A 319     -16.099  39.383  27.320  1.00 31.79      A
ATOM   2454  O   ASP A 319     -16.918  38.547  26.951  1.00 33.08      A
ATOM   2455  N   LEU A 320     -14.973  39.076  27.957  1.00 32.09      A
ATOM   2456  CA  LEU A 320     -14.573  37.704  28.248  1.00 30.79      A
ATOM   2457  CB  LEU A 320     -13.543  37.257  27.216  1.00 29.45      A
ATOM   2458  CG  LEU A 320     -12.782  35.957  27.445  1.00 29.60      A
ATOM   2459  CD1 LEU A 320     -13.719  34.768  27.247  1.00 30.19      A
ATOM   2460  CD2 LEU A 320     -11.615  35.892  26.464  1.00 30.09      A
ATOM   2461  C   LEU A 320     -13.974  37.529  29.638  1.00 31.93      A
ATOM   2462  O   LEU A 320     -13.162  38.346  30.082  1.00 32.57      A
ATOM   2463  N   VAL A 321     -14.388  36.464  30.320  1.00 30.72      A
ATOM   2464  CA  VAL A 321     -13.862  36.151  31.639  1.00 30.99      A
ATOM   2465  CB  VAL A 321     -14.804  36.622  32.777  1.00 30.60      A
ATOM   2466  CG1 VAL A 321     -16.173  36.003  32.637  1.00 31.47      A
ATOM   2467  CG2 VAL A 321     -14.211  36.243  34.104  1.00 30.57      A
ATOM   2468  C   VAL A 321     -13.669  34.643  31.708  1.00 31.54      A
ATOM   2469  O   VAL A 321     -14.522  33.881  31.257  1.00 32.25      A
ATOM   2470  N   VAL A 322     -12.540  34.214  32.259  1.00 31.56      A
ATOM   2471  CA  VAL A 322     -12.235  32.792  32.359  1.00 32.28      A
ATOM   2472  CB  VAL A 322     -11.068  32.405  31.416  1.00 32.49      A
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ATOM   2473  CG1 VAL A 322     -10.826  30.899  31.463  1.00 31.55      A
ATOM   2474  CG2 VAL A 322     -11.368  32.861  30.015  1.00 32.09      A
ATOM   2475  C   VAL A 322     -11.830  32.389  33.771  1.00 32.62      A
ATOM   2476  O   VAL A 322     -11.089  33.111  34.442  1.00 33.21      A
ATOM   2477  N   ILE A 323     -12.316  31.226  34.202  1.00 32.50      A
ATOM   2478  CA  ILE A 323     -12.013  30.658  35.519  1.00 32.03      A
ATOM   2479  CB  ILE A 323     -13.279  30.591  36.399  1.00 30.45      A
ATOM   2480  CG2 ILE A 323     -12.980  29.869  37.698  1.00 31.20      A
ATOM   2481  CG1 ILE A 323     -13.781  32.004  36.690  1.00 28.81      A
ATOM   2482  CD1 ILE A 323     -15.120  32.043  37.379  1.00 28.64      A
ATOM   2483  C   ILE A 323     -11.514  29.248  35.244  1.00 32.91      A
ATOM   2484  O   ILE A 323     -12.160  28.490  34.523  1.00 34.85      A
ATOM   2485  N   CYS A 324     -10.370  28.887  35.806  1.00 33.82      A
ATOM   2486  CA  CYS A 324      -9.816  27.557  35.561  1.00 35.77      A
ATOM   2487  CB  CYS A 324      -8.860  27.635  34.374  1.00 38.27      A
ATOM   2488  SG  CYS A 324      -7.463  28.770  34.677  1.00 42.94      A
ATOM   2489  C   CYS A 324      -9.069  27.001  36.775  1.00 35.89      A
ATOM   2490  O   CYS A 324      -8.959  27.668  37.799  1.00 35.98      A
ATOM   2491  N   GLU A 325      -8.565  25.775  36.661  1.00 36.00      A
ATOM   2492  CA  GLU A 325      -7.802  25.175  37.749  1.00 36.63      A
ATOM   2493  CB  GLU A 325      -7.712  23.656  37.588  1.00 37.81      A
ATOM   2494  CG  GLU A 325      -8.961  22.888  37.989  1.00 41.32      A
ATOM   2495  CD  GLU A 325      -9.225  22.932  39.486  1.00 43.49      A
ATOM   2496  OE1 GLU A 325     -10.195  22.277  39.933  1.00 44.41      A
ATOM   2497  OE2 GLU A 325      -8.469  23.619  40.214  1.00 43.47      A
ATOM   2498  C   GLU A 325      -6.395  25.755  37.749  1.00 36.88      A
ATOM   2499  O   GLU A 325      -5.680  25.693  36.748  1.00 36.75      A
ATOM   2500  N   SER A 326      -5.997  26.322  38.877  1.00 37.96      A
ATOM   2501  CA  SER A 326      -4.669  26.904  38.996  1.00 39.36      A
ATOM   2502  CB  SER A 326      -4.554  27.667  40.309  1.00 37.45      A
ATOM   2503  OG  SER A 326      -3.315  28.339  40.366  1.00 39.45      A
ATOM   2504  C   SER A 326      -3.575  25.838  38.935  1.00 40.89      A
ATOM   2505  O   SER A 326      -3.721  24.752  39.495  1.00 41.65      A
ATOM   2506  N   ALA A 327      -2.480  26.154  38.253  1.00 41.31      A
ATOM   2507  CA  ALA A 327      -1.357  25.230  38.133  1.00 40.98      A
ATOM   2508  CB  ALA A 327      -0.925  25.127  36.684  1.00 38.10      A
ATOM   2509  C   ALA A 327      -0.205  25.756  38.987  1.00 42.29      A
ATOM   2510  O   ALA A 327       0.853  25.139  39.085  1.00 42.08      A
ATOM   2511  N   GLY A 328      -0.431  26.905  39.609  1.00 43.57      A
ATOM   2512  CA  GLY A 328       0.589  27.521  40.429  1.00 44.19      A
ATOM   2513  C   GLY A 328       0.835  28.934  39.934  1.00 46.17      A
ATOM   2514  O   GLY A 328       0.711  29.220  38.745  1.00 47.44      A
ATOM   2515  N   THR A 329       1.188  29.820  40.853  1.00 47.14      A
ATOM   2516  CA  THR A 329       1.445  31.213  40.540  1.00 47.15      A
ATOM   2517  CB  THR A 329       2.178  31.893  41.705  1.00 47.46      A
ATOM   2518  OG1 THR A 329       1.339  31.872  42.868  1.00 47.05      A
ATOM   2519  CG2 THR A 329       2.523  33.337  41.355  1.00 48.03      A
ATOM   2520  C   THR A 329       2.245  31.423  39.263  1.00 48.30      A
ATOM   2521  O   THR A 329       1.776  32.094  38.341  1.00 48.65      A
ATOM   2522  N   GLN A 330       3.448  30.854  39.214  1.00 49.80      A
ATOM   2523  CA  GLN A 330       4.325  30.995  38.052  1.00 50.41      A
ATOM   2524  CB  GLN A 330       5.686  30.344  38.317  1.00 54.01      A
ATOM   2525  CG  GLN A 330       6.563  31.087  39.308  1.00 59.93      A
ATOM   2526  CD  GLN A 330       6.892  32.501  38.856  1.00 64.55      A
ATOM   2527  OE1 GLN A 330       6.001  33.355  38.734  1.00 66.86      A
ATOM   2528  NE2 GLN A 330       8.178  32.759  38.602  1.00 65.46      A
ATOM   2529  C   GLN A 330       3.735  30.391  36.796  1.00 49.05      A
ATOM   2530  O   GLN A 330       3.777  30.997  35.730  1.00 49.32      A
ATOM   2531  N   GLU A 331       3.197  29.186  36.928  1.00 48.11      A
ATOM   2532  CA  GLU A 331       2.600  28.482  35.805  1.00 48.02      A
ATOM   2533  CB  GLU A 331       2.090  27.112  36.253  1.00 50.13      A
ATOM   2534  CG  GLU A 331       3.136  26.209  36.895  1.00 53.12      A
ATOM   2535  CD  GLU A 331       3.769  26.834  38.122  1.00 55.53      A
ATOM   2536  OE1 GLU A 331       3.026  27.429  38.930  1.00 55.17      A
ATOM   2537  OE2 GLU A 331       5.006  26.726  38.282  1.00 57.89      A
ATOM   2538  C   GLU A 331       1.443  29.290  35.223  1.00 47.20      A
ATOM   2539  O   GLU A 331       1.391  29.528  34.012  1.00 47.16      A
ATOM   2540  N   ASP A 332       0.520  29.705  36.091  1.00 44.25      A
ATOM   2541  CA  ASP A 332      -0.645  30.482  35.674  1.00 42.88      A
ATOM   2542  CB  ASP A 332      -1.468  30.926  36.894  1.00 43.66      A
ATOM   2543  CG  ASP A 332      -2.211  29.776  37.572  1.00 44.64      A
ATOM   2544  OD1 ASP A 332      -2.051  28.608  37.160  1.00 43.51      A
ATOM   2545  OD2 ASP A 332      -2.964  30.052  38.534  1.00 46.19      A
ATOM   2546  C   ASP A 332      -0.223  31.723  34.887  1.00 41.97      A
ATOM   2547  O   ASP A 332      -0.809  32.049  33.853  1.00 41.41      A
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ATOM	2548	N	ALA	A	333	0.792	32.419	35.386	1.00	39.41	A
ATOM	2549	CA	ALA	A	333	1.266	33.622	34.733	1.00	37.60	A
ATOM	2550	CB	ALA	A	333	2.385	34.226	35.534	1.00	35.80	A
ATOM	2551	C	ALA	A	333	1.739	33.323	33.318	1.00	38.76	A
ATOM	2552	O	ALA	A	333	1.408	34.046	32.377	1.00	39.96	A
ATOM	2553	N	ALA	A	334	2.520	32.258	33.170	1.00	36.99	A
ATOM	2554	CA	ALA	A	334	3.039	31.873	31.866	1.00	36.10	A
ATOM	2555	CB	ALA	A	334	4.044	30.758	32.029	1.00	33.40	A
ATOM	2556	C	ALA	A	334	1.896	31.423	30.956	1.00	35.97	A
ATOM	2557	O	ALA	A	334	1.864	31.732	29.765	1.00	34.72	A
ATOM	2558	N	ALA	A	335	0.963	30.679	31.533	1.00	35.72	A
ATOM	2559	CA	ALA	A	335	-0.192	30.186	30.801	1.00	34.37	A
ATOM	2560	CB	ALA	A	335	-1.028	29.303	31.712	1.00	30.45	A
ATOM	2561	C	ALA	A	335	-1.037	31.347	30.265	1.00	35.12	A
ATOM	2562	O	ALA	A	335	-1.547	31.298	29.141	1.00	34.40	A
ATOM	2563	N	LEU	A	336	-1.183	32.397	31.066	1.00	36.03	A
ATOM	2564	CA	LEU	A	336	-1.978	33.541	30.638	1.00	37.77	A
ATOM	2565	CB	LEU	A	336	-2.175	34.513	31.802	1.00	38.63	A
ATOM	2566	CG	LEU	A	336	-3.564	35.152	31.893	1.00	39.45	A
ATOM	2567	CD1	LEU	A	336	-3.613	36.132	33.057	1.00	36.29	A
ATOM	2568	CD2	LEU	A	336	-3.891	35.840	30.582	1.00	39.01	A
ATOM	2569	C	LEU	A	336	-1.281	34.243	29.477	1.00	37.41	A
ATOM	2570	O	LEU	A	336	-1.925	34.727	28.551	1.00	37.74	A
ATOM	2571	N	ARG	A	337	0.045	34.288	29.546	1.00	37.94	A
ATOM	2572	CA	ARG	A	337	0.870	34.906	28.515	1.00	37.72	A
ATOM	2573	CB	ARG	A	337	2.333	34.898	28.962	1.00	38.40	A
ATOM	2574	CG	ARG	A	337	2.947	36.260	29.121	1.00	40.92	A
ATOM	2575	CD	ARG	A	337	3.482	36.480	30.513	1.00	43.23	A
ATOM	2576	NE	ARG	A	337	4.372	35.404	30.933	1.00	47.07	A
ATOM	2577	CZ	ARG	A	337	5.039	35.390	32.085	1.00	46.98	A
ATOM	2578	NH1	ARG	A	337	4.924	36.400	32.936	1.00	46.97	A
ATOM	2579	NH2	ARG	A	337	5.807	34.354	32.392	1.00	48.60	A
ATOM	2580	C	ARG	A	337	0.709	34.097	27.224	1.00	37.16	A
ATOM	2581	O	ARG	A	337	0.633	34.648	26.126	1.00	38.46	A
ATOM	2582	N	ALA	A	338	0.659	32.781	27.364	1.00	35.09	A
ATOM	2583	CA	ALA	A	338	0.486	31.919	26.208	1.00	34.55	A
ATOM	2584	CB	ALA	A	338	0.553	30.458	26.633	1.00	32.13	A
ATOM	2585	C	ALA	A	338	-0.880	32.237	25.604	1.00	33.71	A
ATOM	2586	O	ALA	A	338	-0.999	32.527	24.418	1.00	34.71	A
ATOM	2587	N	PHE	A	339	-1.907	32.194	26.443	1.00	32.85	A
ATOM	2588	CA	PHE	A	339	-3.263	32.482	26.010	1.00	31.62	A
ATOM	2589	CB	PHE	A	339	-4.188	32.592	27.223	1.00	30.21	A
ATOM	2590	CG	PHE	A	339	-5.559	33.081	26.886	1.00	26.75	A
ATOM	2591	CD1	PHE	A	339	-6.567	32.186	26.562	1.00	28.33	A
ATOM	2592	CD2	PHE	A	339	-5.837	34.442	26.866	1.00	25.79	A
ATOM	2593	CE1	PHE	A	339	-7.835	32.640	26.203	1.00	26.78	A
ATOM	2594	CE2	PHE	A	339	-7.094	34.911	26.508	1.00	24.92	A
ATOM	2595	CZ	PHE	A	339	-8.100	34.009	26.183	1.00	25.62	A
ATOM	2596	C	PHE	A	339	-3.302	33.788	25.231	1.00	31.44	A
ATOM	2597	O	PHE	A	339	-3.983	33.895	24.217	1.00	32.67	A
ATOM	2598	N	THR	A	340	-2.566	34.781	25.707	1.00	30.76	A
ATOM	2599	CA	THR	A	340	-2.562	36.077	25.054	1.00	30.52	A
ATOM	2600	CB	THR	A	340	-1.918	37.140	25.963	1.00	28.14	A
ATOM	2601	OG1	THR	A	340	-2.618	37.163	27.212	1.00	27.49	A
ATOM	2602	CG2	THR	A	340	-2.008	38.530	25.329	1.00	25.06	A
ATOM	2603	C	THR	A	340	-1.873	36.060	23.696	1.00	32.06	A
ATOM	2604	O	THR	A	340	-2.290	36.772	22.779	1.00	31.96	A
ATOM	2605	N	GLU	A	341	-0.825	35.255	23.550	1.00	32.58	A
ATOM	2606	CA	GLU	A	341	-0.140	35.203	22.267	1.00	34.09	A
ATOM	2607	CB	GLU	A	341	1.210	34.491	22.394	1.00	35.00	A
ATOM	2608	CG	GLU	A	341	2.199	35.212	23.311	1.00	36.43	A
ATOM	2609	CD	GLU	A	341	2.468	36.649	22.876	1.00	36.93	A
ATOM	2610	OE1	GLU	A	341	2.687	37.513	23.753	1.00	35.98	A
ATOM	2611	OE2	GLU	A	341	2.468	36.918	21.657	1.00	39.04	A
ATOM	2612	C	GLU	A	341	-1.046	34.479	21.282	1.00	35.21	A
ATOM	2613	O	GLU	A	341	-1.068	34.797	20.095	1.00	37.65	A
ATOM	2614	N	ALA	A	342	-1.809	33.516	21.782	1.00	33.39	A
ATOM	2615	CA	ALA	A	342	-2.731	32.781	20.937	1.00	34.15	A
ATOM	2616	CB	ALA	A	342	-3.418	31.698	21.747	1.00	33.02	A
ATOM	2617	C	ALA	A	342	-3.763	33.767	20.382	1.00	35.38	A
ATOM	2618	O	ALA	A	342	-3.979	33.840	19.173	1.00	37.88	A
ATOM	2619	N	MET	A	343	-4.391	34.529	21.275	1.00	35.02	A
ATOM	2620	CA	MET	A	343	-5.400	35.514	20.893	1.00	34.24	A
ATOM	2621	CB	MET	A	343	-5.937	36.251	22.132	1.00	33.06	A
ATOM	2622	CG	MET	A	343	-6.826	35.428	23.056	1.00	32.06	A

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ATOM   2623  SD  MET A 343      -8.429  34.990  22.333  1.00 31.85      A
ATOM   2624  CE  MET A 343      -9.405  36.401  22.840  1.00 31.59      A
ATOM   2625  C   MET A 343      -4.842  36.542  19.914  1.00 34.64      A
ATOM   2626  O   MET A 343      -5.524  36.946  18.964  1.00 35.20      A
ATOM   2627  N   THR A 344      -3.605  36.971  20.154  1.00 33.85      A
ATOM   2628  CA  THR A 344      -2.967  37.969  19.303  1.00 31.92      A
ATOM   2629  CB  THR A 344      -1.583  38.357  19.866  1.00 31.05      A
ATOM   2630  OG1 THR A 344      -1.748  38.902  21.180  1.00 32.28      A
ATOM   2631  CG2 THR A 344      -0.914  39.398  18.982  1.00 26.47      A
ATOM   2632  C   THR A 344      -2.832  37.429  17.883  1.00 31.78      A
ATOM   2633  O   THR A 344      -2.997  38.161  16.906  1.00 31.92      A
ATOM   2634  N   ARG A 345      -2.544  36.135  17.782  1.00 30.91      A
ATOM   2635  CA  ARG A 345      -2.407  35.483  16.497  1.00 30.38      A
ATOM   2636  CB  ARG A 345      -1.809  34.091  16.656  1.00 28.40      A
ATOM   2637  CG  ARG A 345      -0.320  34.074  16.717  1.00 25.66      A
ATOM   2638  CD  ARG A 345       0.162  32.657  16.641  1.00 24.28      A
ATOM   2639  NE  ARG A 345      -0.178  31.901  17.839  1.00 27.43      A
ATOM   2640  CZ  ARG A 345       0.582  31.862  18.926  1.00 29.46      A
ATOM   2641  NH1 ARG A 345       1.723  32.536  18.965  1.00 32.23      A
ATOM   2642  NH2 ARG A 345       0.210  31.146  19.971  1.00 30.76      A
ATOM   2643  C   ARG A 345      -3.764  35.359  15.835  1.00 32.53      A
ATOM   2644  O   ARG A 345      -3.864  35.445  14.607  1.00 35.37      A
ATOM   2645  N   TYR A 346      -4.803  35.129  16.637  1.00 31.48      A
ATOM   2646  CA  TYR A 346      -6.145  35.013  16.086  1.00 31.15      A
ATOM   2647  CB  TYR A 346      -7.099  34.328  17.060  1.00 30.44      A
ATOM   2648  CG  TYR A 346      -6.803  32.876  17.340  1.00 30.51      A
ATOM   2649  CD1 TYR A 346      -6.201  32.063  16.382  1.00 29.35      A
ATOM   2650  CE1 TYR A 346      -6.010  30.708  16.617  1.00 29.96      A
ATOM   2651  CD2 TYR A 346      -7.200  32.293  18.545  1.00 30.82      A
ATOM   2652  CE2 TYR A 346      -7.017  30.940  18.787  1.00 29.88      A
ATOM   2653  CZ  TYR A 346      -6.427  30.156  17.819  1.00 30.58      A
ATOM   2654  OH  TYR A 346      -6.300  28.813  18.048  1.00 33.38      A
ATOM   2655  C   TYR A 346      -6.698  36.388  15.752  1.00 31.84      A
ATOM   2656  O   TYR A 346      -7.815  36.500  15.255  1.00 32.84      A
ATOM   2657  N   SER A 347      -5.918  37.427  16.039  1.00 31.92      A
ATOM   2658  CA  SER A 347      -6.316  38.799  15.763  1.00 33.66      A
ATOM   2659  CB  SER A 347      -7.030  38.907  14.419  1.00 32.62      A
ATOM   2660  OG  SER A 347      -7.549  40.212  14.236  1.00 33.36      A
ATOM   2661  C   SER A 347      -7.226  39.341  16.837  1.00 36.22      A
ATOM   2662  O   SER A 347      -8.304  39.878  16.553  1.00 39.36      A
ATOM   2663  N   ALA A 348      -6.792  39.189  18.077  1.00 36.97      A
ATOM   2664  CA  ALA A 348      -7.540  39.680  19.224  1.00 35.84      A
ATOM   2665  CB  ALA A 348      -8.435  38.589  19.769  1.00 35.74      A
ATOM   2666  C   ALA A 348      -6.509  40.113  20.268  1.00 35.14      A
ATOM   2667  O   ALA A 348      -6.482  39.611  21.393  1.00 34.31      A
ATOM   2668  N   PRO A 349      -5.626  41.050  19.884  1.00 33.85      A
ATOM   2669  CD  PRO A 349      -5.668  41.806  18.619  1.00 32.10      A
ATOM   2670  CA  PRO A 349      -4.580  41.571  20.768  1.00 34.39      A
ATOM   2671  CB  PRO A 349      -3.870  42.596  19.886  1.00 33.35      A
ATOM   2672  CG  PRO A 349      -4.965  43.089  18.990  1.00 32.03      A
ATOM   2673  C   PRO A 349      -5.167  42.186  22.044  1.00 34.92      A
ATOM   2674  O   PRO A 349      -6.272  42.734  22.041  1.00 35.68      A
ATOM   2675  N   PRO A 350      -4.431  42.109  23.153  1.00 35.37      A
ATOM   2676  CD  PRO A 350      -3.151  41.422  23.374  1.00 35.76      A
ATOM   2677  CA  PRO A 350      -4.943  42.671  24.400  1.00 36.99      A
ATOM   2678  CB  PRO A 350      -4.076  42.006  25.451  1.00 36.23      A
ATOM   2679  CG  PRO A 350      -2.768  41.904  24.749  1.00 36.04      A
ATOM   2680  C   PRO A 350      -4.862  44.176  24.484  1.00 38.91      A
ATOM   2681  O   PRO A 350      -4.061  44.801  23.797  1.00 39.89      A
ATOM   2682  N   GLY A 351      -5.730  44.749  25.310  1.00 40.79      A
ATOM   2683  CA  GLY A 351      -5.715  46.179  25.537  1.00 42.19      A
ATOM   2684  C   GLY A 351      -4.887  46.207  26.799  1.00 43.62      A
ATOM   2685  O   GLY A 351      -3.658  46.144  26.740  1.00 43.40      A
ATOM   2686  N   ASP A 352      -5.551  46.270  27.947  1.00 46.12      A
ATOM   2687  CA  ASP A 352      -4.831  46.231  29.216  1.00 48.95      A
ATOM   2688  CB  ASP A 352      -5.796  46.368  30.406  1.00 52.68      A
ATOM   2689  CG  ASP A 352      -6.768  47.547  30.260  1.00 56.15      A
ATOM   2690  OD1 ASP A 352      -6.315  48.693  30.018  1.00 56.48      A
ATOM   2691  OD2 ASP A 352      -7.994  47.323  30.401  1.00 57.73      A
ATOM   2692  C   ASP A 352      -4.256  44.814  29.184  1.00 48.09      A
ATOM   2693  O   ASP A 352      -4.752  43.965  28.447  1.00 50.37      A
ATOM   2694  N   PRO A 353      -3.199  44.537  29.952  1.00 46.29      A
ATOM   2695  CD  PRO A 353      -2.214  45.468  30.515  1.00 46.66      A
ATOM   2696  CA  PRO A 353      -2.663  43.166  29.903  1.00 43.52      A
ATOM   2697  CB  PRO A 353      -1.199  43.346  30.296  1.00 45.80      A
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ATOM   2698  CG  PRO A 353      -0.932  44.841  30.050  1.00 47.26      A
ATOM   2699  C   PRO A 353      -3.402  42.270  30.883  1.00 41.15      A
ATOM   2700  O   PRO A 353      -3.631  42.664  32.019  1.00 42.59      A
ATOM   2701  N   PRO A 354      -3.795  41.057  30.462  1.00 38.86      A
ATOM   2702  CD  PRO A 354      -3.563  40.417  29.159  1.00 36.88      A
ATOM   2703  CA  PRO A 354      -4.514  40.148  31.363  1.00 38.87      A
ATOM   2704  CB  PRO A 354      -4.860  38.973  30.456  1.00 36.40      A
ATOM   2705  CG  PRO A 354      -3.737  38.958  29.492  1.00 36.34      A
ATOM   2706  C   PRO A 354      -3.704  39.727  32.593  1.00 39.93      A
ATOM   2707  O   PRO A 354      -2.561  39.287  32.477  1.00 41.58      A
ATOM   2708  N   GLN A 355      -4.305  39.866  33.768  1.00 40.41      A
ATOM   2709  CA  GLN A 355      -3.647  39.508  35.019  1.00 42.95      A
ATOM   2710  CB  GLN A 355      -3.593  40.714  35.965  1.00 48.04      A
ATOM   2711  CG  GLN A 355      -2.694  41.847  35.508  1.00 54.38      A
ATOM   2712  CD  GLN A 355      -1.299  41.362  35.124  1.00 59.48      A
ATOM   2713  OE1 GLN A 355      -0.649  40.622  35.878  1.00 61.17      A
ATOM   2714  NE2 GLN A 355      -0.829  41.781  33.947  1.00 60.01      A
ATOM   2715  C   GLN A 355      -4.397  38.387  35.721  1.00 41.76      A
ATOM   2716  O   GLN A 355      -5.618  38.442  35.857  1.00 41.96      A
ATOM   2717  N   PRO A 356      -3.679  37.352  36.179  1.00 40.75      A
ATOM   2718  CD  PRO A 356      -2.265  36.989  35.970  1.00 39.03      A
ATOM   2719  CA  PRO A 356      -4.397  36.275  36.859  1.00 40.32      A
ATOM   2720  CB  PRO A 356      -3.368  35.147  36.893  1.00 38.52      A
ATOM   2721  CG  PRO A 356      -2.077  35.866  36.957  1.00 36.03      A
ATOM   2722  C   PRO A 356      -4.842  36.718  38.247  1.00 41.22      A
ATOM   2723  O   PRO A 356      -4.089  37.378  38.953  1.00 42.15      A
ATOM   2724  N   GLU A 357      -6.076  36.380  38.617  1.00 41.37      A
ATOM   2725  CA  GLU A 357      -6.623  36.727  39.932  1.00 39.87      A
ATOM   2726  CB  GLU A 357      -7.911  37.543  39.806  1.00 38.87      A
ATOM   2727  CG  GLU A 357      -7.747  38.951  39.285  1.00 41.04      A
ATOM   2728  CD  GLU A 357      -6.795  39.782  40.120  1.00 43.69      A
ATOM   2729  OE1 GLU A 357      -6.870  39.719  41.365  1.00 45.27      A
ATOM   2730  OE2 GLU A 357      -5.975  40.514  39.533  1.00 45.53      A
ATOM   2731  C   GLU A 357      -6.939  35.440  40.674  1.00 39.81      A
ATOM   2732  O   GLU A 357      -7.269  34.425  40.058  1.00 41.68      A
ATOM   2733  N   TYR A 358      -6.840  35.480  41.995  1.00 38.66      A
ATOM   2734  CA  TYR A 358      -7.114  34.305  42.803  1.00 37.29      A
ATOM   2735  CB  TYR A 358      -5.827  33.819  43.462  1.00 35.20      A
ATOM   2736  CG  TYR A 358      -4.766  33.395  42.468  1.00 33.28      A
ATOM   2737  CD1 TYR A 358      -4.797  32.133  41.874  1.00 34.25      A
ATOM   2738  CE1 TYR A 358      -3.831  31.753  40.926  1.00 33.36      A
ATOM   2739  CD2 TYR A 358      -3.749  34.266  42.097  1.00 31.97      A
ATOM   2740  CE2 TYR A 358      -2.788  33.898  41.163  1.00 33.55      A
ATOM   2741  CZ  TYR A 358      -2.835  32.646  40.583  1.00 33.92      A
ATOM   2742  OH  TYR A 358      -1.884  32.301  39.655  1.00 39.14      A
ATOM   2743  C   TYR A 358      -8.179  34.617  43.847  1.00 38.80      A
ATOM   2744  O   TYR A 358      -8.331  33.895  44.831  1.00 39.16      A
ATOM   2745  N   ASP A 359      -8.915  35.702  43.604  1.00 40.03      A
ATOM   2746  CA  ASP A 359     -10.008  36.159  44.457  1.00 40.68      A
ATOM   2747  CB  ASP A 359      -9.544  37.280  45.387  1.00 44.19      A
ATOM   2748  CG  ASP A 359     -10.707  37.981  46.091  1.00 50.62      A
ATOM   2749  OD1 ASP A 359     -11.793  37.356  46.225  1.00 52.11      A
ATOM   2750  OD2 ASP A 359     -10.529  39.153  46.521  1.00 51.83      A
ATOM   2751  C   ASP A 359     -11.105  36.681  43.540  1.00 40.54      A
ATOM   2752  O   ASP A 359     -10.985  37.771  42.983  1.00 41.99      A
ATOM   2753  N   LEU A 360     -12.170  35.900  43.388  1.00 38.65      A
ATOM   2754  CA  LEU A 360     -13.280  36.255  42.515  1.00 37.16      A
ATOM   2755  CB  LEU A 360     -14.512  35.403  42.843  1.00 34.33      A
ATOM   2756  CG  LEU A 360     -15.746  35.715  41.987  1.00 33.41      A
ATOM   2757  CD1 LEU A 360     -15.501  35.253  40.569  1.00 31.53      A
ATOM   2758  CD2 LEU A 360     -16.978  35.036  42.548  1.00 33.44      A
ATOM   2759  C   LEU A 360     -13.679  37.725  42.541  1.00 38.52      A
ATOM   2760  O   LEU A 360     -13.937  38.325  41.496  1.00 40.08      A
ATOM   2761  N   GLU A 361     -13.735  38.313  43.725  1.00 38.37      A
ATOM   2762  CA  GLU A 361     -14.148  39.698  43.821  1.00 38.88      A
ATOM   2763  CB  GLU A 361     -14.254  40.108  45.283  1.00 41.41      A
ATOM   2764  CG  GLU A 361     -15.394  39.434  46.010  1.00 45.34      A
ATOM   2765  CD  GLU A 361     -15.694  40.086  47.349  1.00 49.20      A
ATOM   2766  OE1 GLU A 361     -15.181  41.207  47.605  1.00 48.86      A
ATOM   2767  OE2 GLU A 361     -16.456  39.476  48.133  1.00 50.72      A
ATOM   2768  C   GLU A 361     -13.263  40.680  43.078  1.00 38.42      A
ATOM   2769  O   GLU A 361     -13.696  41.782  42.754  1.00 39.28      A
ATOM   2770  N   LEU A 362     -12.029  40.287  42.798  1.00 38.80      A
ATOM   2771  CA  LEU A 362     -11.099  41.175  42.107  1.00 38.69      A
ATOM   2772  CB  LEU A 362      -9.659  40.801  42.461  1.00 38.66      A
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ATOM   2773  CG  LEU A 362      -9.319  40.944  43.954  1.00 38.41      A
ATOM   2774  CD1 LEU A 362      -7.849  40.621  44.181  1.00 36.78      A
ATOM   2775  CD2 LEU A 362      -9.634  42.356  44.424  1.00 34.04      A
ATOM   2776  C   LEU A 362     -11.291  41.189  40.596  1.00 38.51      A
ATOM   2777  O   LEU A 362     -11.014  42.191  39.932  1.00 39.49      A
ATOM   2778  N   ILE A 363     -11.774  40.082  40.051  1.00 36.92      A
ATOM   2779  CA  ILE A 363     -12.017  40.003  38.623  1.00 34.66      A
ATOM   2780  CB  ILE A 363     -12.392  38.583  38.220  1.00 32.82      A
ATOM   2781  CG2 ILE A 363     -12.687  38.517  36.717  1.00 30.36      A
ATOM   2782  CG1 ILE A 363     -11.271  37.636  38.636  1.00 30.34      A
ATOM   2783  CD1 ILE A 363     -11.535  36.210  38.271  1.00 27.68      A
ATOM   2784  C   ILE A 363     -13.170  40.931  38.249  1.00 36.62      A
ATOM   2785  O   ILE A 363     -14.169  41.007  38.970  1.00 38.06      A
ATOM   2786  N   THR A 364     -13.024  41.639  37.131  1.00 35.63      A
ATOM   2787  CA  THR A 364     -14.060  42.543  36.653  1.00 35.06      A
ATOM   2788  CB  THR A 364     -13.563  43.985  36.584  1.00 34.07      A
ATOM   2789  OG1 THR A 364     -13.099  44.386  37.876  1.00 35.40      A
ATOM   2790  CG2 THR A 364     -14.689  44.912  36.115  1.00 30.34      A
ATOM   2791  C   THR A 364     -14.478  42.128  35.250  1.00 36.96      A
ATOM   2792  O   THR A 364     -13.672  42.180  34.320  1.00 38.95      A
ATOM   2793  N   SER A 365     -15.734  41.722  35.102  1.00 36.40      A
ATOM   2794  CA  SER A 365     -16.260  41.294  33.813  1.00 37.31      A
ATOM   2795  CB  SER A 365     -16.517  39.795  33.821  1.00 39.30      A
ATOM   2796  OG  SER A 365     -17.601  39.490  34.682  1.00 42.24      A
ATOM   2797  C   SER A 365     -17.568  42.021  33.559  1.00 38.58      A
ATOM   2798  O   SER A 365     -18.442  42.069  34.433  1.00 37.83      A
ATOM   2799  N   CYS A 366     -17.704  42.573  32.357  1.00 39.07      A
ATOM   2800  CA  CYS A 366     -18.889  43.336  31.992  1.00 38.72      A
ATOM   2801  CB  CYS A 366     -20.153  42.487  32.102  1.00 39.26      A
ATOM   2802  SG  CYS A 366     -20.428  41.397  30.692  1.00 44.15      A
ATOM   2803  C   CYS A 366     -18.999  44.534  32.914  1.00 38.30      A
ATOM   2804  O   CYS A 366     -20.092  44.944  33.281  1.00 38.21      A
ATOM   2805  N   SER A 367     -17.849  45.079  33.296  1.00 38.56      A
ATOM   2806  CA  SER A 367     -17.789  46.243  34.174  1.00 38.61      A
ATOM   2807  CB  SER A 367     -18.560  47.395  33.541  1.00 35.54      A
ATOM   2808  OG  SER A 367     -18.012  47.707  32.277  1.00 36.06      A
ATOM   2809  C   SER A 367     -18.320  45.996  35.586  1.00 39.45      A
ATOM   2810  O   SER A 367     -18.550  46.948  36.336  1.00 40.52      A
ATOM   2811  N   SER A 368     -18.507  44.730  35.950  1.00 38.21      A
ATOM   2812  CA  SER A 368     -19.026  44.396  37.266  1.00 37.92      A
ATOM   2813  CB  SER A 368     -20.439  43.824  37.137  1.00 38.71      A
ATOM   2814  OG  SER A 368     -21.282  44.728  36.450  1.00 38.69      A
ATOM   2815  C   SER A 368     -18.152  43.388  37.984  1.00 37.13      A
ATOM   2816  O   SER A 368     -17.293  42.756  37.377  1.00 38.66      A
ATOM   2817  N   ASN A 369     -18.370  43.252  39.285  1.00 35.85      A
ATOM   2818  CA  ASN A 369     -17.634  42.286  40.085  1.00 35.98      A
ATOM   2819  CB  ASN A 369     -16.420  42.914  40.760  1.00 36.49      A
ATOM   2820  CG  ASN A 369     -16.804  43.900  41.839  1.00 38.17      A
ATOM   2821  OD1 ASN A 369     -17.241  45.018  41.555  1.00 40.40      A
ATOM   2822  ND2 ASN A 369     -16.658  43.487  43.089  1.00 37.52      A
ATOM   2823  C   ASN A 369     -18.567  41.760  41.154  1.00 35.59      A
ATOM   2824  O   ASN A 369     -19.628  42.328  41.402  1.00 36.06      A
ATOM   2825  N   VAL A 370     -18.169  40.662  41.774  1.00 35.26      A
ATOM   2826  CA  VAL A 370     -18.953  40.063  42.833  1.00 35.65      A
ATOM   2827  CB  VAL A 370     -18.686  38.540  42.910  1.00 36.90      A
ATOM   2828  CG1 VAL A 370     -19.436  37.920  44.099  1.00 34.14      A
ATOM   2829  CG2 VAL A 370     -19.097  37.883  41.593  1.00 34.75      A
ATOM   2830  C   VAL A 370     -18.585  40.708  44.175  1.00 37.13      A
ATOM   2831  O   VAL A 370     -17.441  41.111  44.398  1.00 37.83      A
ATOM   2832  N   SER A 371     -19.570  40.822  45.056  1.00 36.88      A
ATOM   2833  CA  SER A 371     -19.357  41.374  46.383  1.00 36.43      A
ATOM   2834  CB  SER A 371     -19.643  42.872  46.397  1.00 35.26      A
ATOM   2835  OG  SER A 371     -19.627  43.363  47.722  1.00 34.82      A
ATOM   2836  C   SER A 371     -20.326  40.629  47.292  1.00 37.47      A
ATOM   2837  O   SER A 371     -21.252  39.985  46.805  1.00 36.68      A
ATOM   2838  N   VAL A 372     -20.126  40.710  48.602  1.00 39.09      A
ATOM   2839  CA  VAL A 372     -20.997  39.991  49.519  1.00 39.53      A
ATOM   2840  CB  VAL A 372     -20.197  39.012  50.406  1.00 39.69      A
ATOM   2841  CG1 VAL A 372     -21.095  37.866  50.845  1.00 41.49      A
ATOM   2842  CG2 VAL A 372     -18.990  38.480  49.657  1.00 42.03      A
ATOM   2843  C   VAL A 372     -21.762  40.920  50.432  1.00 39.50      A
ATOM   2844  O   VAL A 372     -21.314  42.016  50.739  1.00 41.40      A
ATOM   2845  N   ALA A 373     -22.932  40.468  50.856  1.00 40.06      A
ATOM   2846  CA  ALA A 373     -23.780  41.224  51.770  1.00 40.70      A
ATOM   2847  CB  ALA A 373     -24.673  42.190  51.002  1.00 38.10      A
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ATOM   2848  C   ALA A 373     -24.620  40.188  52.517  1.00 41.10      A
ATOM   2849  O   ALA A 373     -24.546  38.999  52.218  1.00 39.53      A
ATOM   2850  N   HIS A 374     -25.410  40.626  53.487  1.00 41.54      A
ATOM   2851  CA  HIS A 374     -26.218  39.690  54.245  1.00 43.22      A
ATOM   2852  CB  HIS A 374     -25.738  39.677  55.692  1.00 43.21      A
ATOM   2853  CG  HIS A 374     -24.282  39.359  55.830  1.00 44.36      A
ATOM   2854  CD2 HIS A 374     -23.181  40.116  55.609  1.00 45.78      A
ATOM   2855  ND1 HIS A 374     -23.821  38.101  56.158  1.00 45.36      A
ATOM   2856  CE1 HIS A 374     -22.500  38.095  56.130  1.00 45.51      A
ATOM   2857  NE2 HIS A 374     -22.086  39.306  55.799  1.00 47.52      A
ATOM   2858  C   HIS A 374     -27.670  40.095  54.159  1.00 44.63      A
ATOM   2859  O   HIS A 374     -27.967  41.270  54.007  1.00 46.28      A
ATOM   2860  N   ASP A 375     -28.574  39.124  54.221  1.00 47.11      A
ATOM   2861  CA  ASP A 375     -29.998  39.431  54.158  1.00 49.90      A
ATOM   2862  CB  ASP A 375     -30.783  38.331  53.429  1.00 52.27      A
ATOM   2863  CG  ASP A 375     -30.652  36.972  54.090  1.00 55.54      A
ATOM   2864  OD1 ASP A 375     -30.768  36.893  55.334  1.00 57.79      A
ATOM   2865  OD2 ASP A 375     -30.445  35.977  53.360  1.00 57.34      A
ATOM   2866  C   ASP A 375     -30.531  39.585  55.571  1.00 50.54      A
ATOM   2867  O   ASP A 375     -29.758  39.629  56.531  1.00 48.49      A
ATOM   2868  N   ALA A 376     -31.852  39.668  55.691  1.00 51.50      A
ATOM   2869  CA  ALA A 376     -32.485  39.816  56.988  1.00 53.22      A
ATOM   2870  CB  ALA A 376     -33.968  39.584  56.852  1.00 53.41      A
ATOM   2871  C   ALA A 376     -31.895  38.843  58.010  1.00 55.06      A
ATOM   2872  O   ALA A 376     -31.445  39.248  59.085  1.00 55.28      A
ATOM   2873  N   SER A 377     -31.881  37.561  57.656  1.00 56.35      A
ATOM   2874  CA  SER A 377     -31.379  36.502  58.534  1.00 57.44      A
ATOM   2875  CB  SER A 377     -31.777  35.144  57.970  1.00 58.23      A
ATOM   2876  OG  SER A 377     -33.132  35.156  57.568  1.00 62.30      A
ATOM   2877  C   SER A 377     -29.877  36.495  58.781  1.00 57.34      A
ATOM   2878  O   SER A 377     -29.396  35.826  59.700  1.00 58.65      A
ATOM   2879  N   GLY A 378     -29.129  37.215  57.959  1.00 57.04      A
ATOM   2880  CA  GLY A 378     -27.689  37.238  58.134  1.00 55.35      A
ATOM   2881  C   GLY A 378     -27.012  36.274  57.182  1.00 53.91      A
ATOM   2882  O   GLY A 378     -25.797  36.072  57.243  1.00 53.46      A
ATOM   2883  N   LYS A 379     -27.802  35.670  56.300  1.00 52.89      A
ATOM   2884  CA  LYS A 379     -27.261  34.730  55.327  1.00 51.48      A
ATOM   2885  CB  LYS A 379     -28.404  34.003  54.600  1.00 53.69      A
ATOM   2886  CG  LYS A 379     -27.946  32.825  53.744  1.00 58.05      A
ATOM   2887  CD  LYS A 379     -29.084  32.184  52.947  1.00 61.60      A
ATOM   2888  CE  LYS A 379     -29.587  33.098  51.829  1.00 64.92      A
ATOM   2889  NZ  LYS A 379     -30.658  32.453  50.993  1.00 66.74      A
ATOM   2890  C   LYS A 379     -26.435  35.546  54.336  1.00 48.23      A
ATOM   2891  O   LYS A 379     -26.788  36.680  54.033  1.00 45.29      A
ATOM   2892  N   ARG A 380     -25.332  34.983  53.850  1.00 46.11      A
ATOM   2893  CA  ARG A 380     -24.490  35.690  52.892  1.00 44.65      A
ATOM   2894  CB  ARG A 380     -23.116  35.051  52.800  1.00 46.29      A
ATOM   2895  CG  ARG A 380     -22.424  34.926  54.124  1.00 51.70      A
ATOM   2896  CD  ARG A 380     -21.092  34.273  53.944  1.00 55.11      A
ATOM   2897  NE  ARG A 380     -20.269  35.032  53.015  1.00 59.90      A
ATOM   2898  CZ  ARG A 380     -19.073  34.634  52.601  1.00 62.49      A
ATOM   2899  NH1 ARG A 380     -18.573  33.485  53.045  1.00 64.05      A
ATOM   2900  NH2 ARG A 380     -18.379  35.376  51.745  1.00 62.25      A
ATOM   2901  C   ARG A 380     -25.122  35.679  51.513  1.00 42.89      A
ATOM   2902  O   ARG A 380     -25.664  34.668  51.071  1.00 42.37      A
ATOM   2903  N   VAL A 381     -25.053  36.816  50.837  1.00 40.62      A
ATOM   2904  CA  VAL A 381     -25.615  36.929  49.513  1.00 38.08      A
ATOM   2905  CB  VAL A 381     -26.940  37.674  49.523  1.00 37.09      A
ATOM   2906  CG1 VAL A 381     -27.417  37.871  48.096  1.00 31.90      A
ATOM   2907  CG2 VAL A 381     -27.965  36.886  50.326  1.00 36.37      A
ATOM   2908  C   VAL A 381     -24.691  37.619  48.528  1.00 39.48      A
ATOM   2909  O   VAL A 381     -24.393  38.820  48.638  1.00 38.82      A
ATOM   2910  N   TYR A 382     -24.240  36.825  47.564  1.00 38.28      A
ATOM   2911  CA  TYR A 382     -23.370  37.297  46.512  1.00 35.58      A
ATOM   2912  CB  TYR A 382     -22.772  36.100  45.778  1.00 34.48      A
ATOM   2913  CG  TYR A 382     -21.878  35.245  46.640  1.00 35.96      A
ATOM   2914  CD1 TYR A 382     -20.572  35.629  46.925  1.00 36.97      A
ATOM   2915  CE1 TYR A 382     -19.755  34.852  47.742  1.00 39.77      A
ATOM   2916  CD2 TYR A 382     -22.347  34.060  47.193  1.00 38.51      A
ATOM   2917  CE2 TYR A 382     -21.541  33.271  48.016  1.00 39.60      A
ATOM   2918  CZ  TYR A 382     -20.249  33.669  48.288  1.00 41.56      A
ATOM   2919  OH  TYR A 382     -19.459  32.885  49.111  1.00 44.25      A
ATOM   2920  C   TYR A 382     -24.252  38.120  45.585  1.00 34.45      A
ATOM   2921  O   TYR A 382     -25.381  37.740  45.301  1.00 34.39      A
ATOM   2922  N   TYR A 383     -23.751  39.265  45.146  1.00 34.13      A
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ATOM   2923  CA  TYR A 383     -24.506  40.125  44.244  1.00 34.03      A
ATOM   2924  CB  TYR A 383     -25.368  41.138  45.021  1.00 33.05      A
ATOM   2925  CG  TYR A 383     -24.597  42.228  45.739  1.00 32.70      A
ATOM   2926  CD1 TYR A 383     -23.847  41.946  46.886  1.00 33.35      A
ATOM   2927  CE1 TYR A 383     -23.113  42.949  47.540  1.00 32.96      A
ATOM   2928  CD2 TYR A 383     -24.604  43.539  45.262  1.00 33.35      A
ATOM   2929  CE2 TYR A 383     -23.880  44.546  45.905  1.00 35.11      A
ATOM   2930  CZ  TYR A 383     -23.133  44.242  47.039  1.00 34.46      A
ATOM   2931  OH  TYR A 383     -22.372  45.222  47.637  1.00 37.04      A
ATOM   2932  C   TYR A 383     -23.508  40.846  43.365  1.00 33.76      A
ATOM   2933  O   TYR A 383     -22.326  40.904  43.687  1.00 34.46      A
ATOM   2934  N   LEU A 384     -23.988  41.401  42.261  1.00 33.97      A
ATOM   2935  CA  LEU A 384     -23.116  42.087  41.323  1.00 32.71      A
ATOM   2936  CB  LEU A 384     -23.543  41.726  39.907  1.00 36.27      A
ATOM   2937  CG  LEU A 384     -22.424  41.519  38.889  1.00 40.51      A
ATOM   2938  CD1 LEU A 384     -21.433  40.475  39.392  1.00 38.56      A
ATOM   2939  CD2 LEU A 384     -23.050  41.081  37.574  1.00 42.81      A
ATOM   2940  C   LEU A 384     -23.122  43.595  41.508  1.00 31.58      A
ATOM   2941  O   LEU A 384     -24.178  44.227  41.546  1.00 30.59      A
ATOM   2942  N   THR A 385     -21.932  44.171  41.611  1.00 30.53      A
ATOM   2943  CA  THR A 385     -21.798  45.609  41.806  1.00 31.56      A
ATOM   2944  CB  THR A 385     -21.489  45.935  43.304  1.00 31.79      A
ATOM   2945  OG1 THR A 385     -21.546  47.352  43.513  1.00 33.73      A
ATOM   2946  CG2 THR A 385     -20.113  45.416  43.700  1.00 30.03      A
ATOM   2947  C   THR A 385     -20.692  46.176  40.904  1.00 32.35      A
ATOM   2948  O   THR A 385     -20.181  45.477  40.031  1.00 32.81      A
ATOM   2949  N   ARG A 386     -20.332  47.440  41.108  1.00 31.89      A
ATOM   2950  CA  ARG A 386     -19.291  48.072  40.302  1.00 31.88      A
ATOM   2951  CB  ARG A 386     -19.724  48.163  38.841  1.00 29.72      A
ATOM   2952  CG  ARG A 386     -20.936  49.063  38.631  1.00 29.70      A
ATOM   2953  CD  ARG A 386     -21.124  49.455  37.185  1.00 28.79      A
ATOM   2954  NE  ARG A 386     -20.330  50.627  36.822  1.00 29.99      A
ATOM   2955  CZ  ARG A 386     -19.998  50.941  35.572  1.00 29.04      A
ATOM   2956  NH1 ARG A 386     -20.390  50.167  34.572  1.00 24.89      A
ATOM   2957  NH2 ARG A 386     -19.275  52.024  35.321  1.00 28.31      A
ATOM   2958  C   ARG A 386     -19.006  49.488  40.778  1.00 33.38      A
ATOM   2959  O   ARG A 386     -19.816  50.089  41.487  1.00 33.64      A
ATOM   2960  N   ASP A 387     -17.847  50.016  40.389  1.00 33.71      A
ATOM   2961  CA  ASP A 387     -17.513  51.387  40.730  1.00 33.83      A
ATOM   2962  CB  ASP A 387     -16.208  51.799  40.061  1.00 33.95      A
ATOM   2963  CG  ASP A 387     -15.882  53.254  40.282  1.00 36.96      A
ATOM   2964  OD1 ASP A 387     -16.668  54.111  39.820  1.00 38.65      A
ATOM   2965  OD2 ASP A 387     -14.845  53.543  40.922  1.00 38.35      A
ATOM   2966  C   ASP A 387     -18.686  52.154  40.121  1.00 34.25      A
ATOM   2967  O   ASP A 387     -18.947  52.040  38.922  1.00 34.12      A
ATOM   2968  N   PRO A 388     -19.417  52.927  40.945  1.00 33.68      A
ATOM   2969  CD  PRO A 388     -19.195  53.031  42.398  1.00 33.85      A
ATOM   2970  CA  PRO A 388     -20.584  53.723  40.550  1.00 33.05      A
ATOM   2971  CB  PRO A 388     -21.325  53.889  41.870  1.00 33.38      A
ATOM   2972  CG  PRO A 388     -20.198  54.098  42.818  1.00 33.91      A
ATOM   2973  C   PRO A 388     -20.351  55.069  39.867  1.00 31.92      A
ATOM   2974  O   PRO A 388     -21.305  55.812  39.641  1.00 31.44      A
ATOM   2975  N   THR A 389     -19.104  55.387  39.534  1.00 31.02      A
ATOM   2976  CA  THR A 389     -18.814  56.670  38.901  1.00 29.74      A
ATOM   2977  CB  THR A 389     -17.334  56.838  38.593  1.00 29.35      A
ATOM   2978  OG1 THR A 389     -16.588  56.768  39.812  1.00 30.48      A
ATOM   2979  CG2 THR A 389     -17.097  58.193  37.946  1.00 27.07      A
ATOM   2980  C   THR A 389     -19.575  56.953  37.618  1.00 28.89      A
ATOM   2981  O   THR A 389     -20.292  57.945  37.530  1.00 27.49      A
ATOM   2982  N   THR A 390     -19.414  56.098  36.615  1.00 28.32      A
ATOM   2983  CA  THR A 390     -20.111  56.336  35.366  1.00 28.26      A
ATOM   2984  CB  THR A 390     -19.779  55.268  34.290  1.00 29.31      A
ATOM   2985  OG1 THR A 390     -18.367  55.054  34.242  1.00 28.60      A
ATOM   2986  CG2 THR A 390     -20.217  55.755  32.911  1.00 27.77      A
ATOM   2987  C   THR A 390     -21.608  56.369  35.618  1.00 27.50      A
ATOM   2988  O   THR A 390     -22.274  57.307  35.215  1.00 29.24      A
ATOM   2989  N   PRO A 391     -22.158  55.354  36.301  1.00 28.47      A
ATOM   2990  CD  PRO A 391     -21.561  54.094  36.787  1.00 28.67      A
ATOM   2991  CA  PRO A 391     -23.603  55.371  36.557  1.00 28.87      A
ATOM   2992  CB  PRO A 391     -23.794  54.184  37.497  1.00 27.38      A
ATOM   2993  CG  PRO A 391     -22.778  53.212  36.984  1.00 28.05      A
ATOM   2994  C   PRO A 391     -24.091  56.692  37.166  1.00 29.62      A
ATOM   2995  O   PRO A 391     -25.103  57.257  36.739  1.00 30.44      A
ATOM   2996  N   LEU A 392     -23.356  57.187  38.155  1.00 29.53      A
ATOM   2997  CA  LEU A 392     -23.715  58.428  38.820  1.00 28.80      A
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ATOM   2998  CB  LEU A 392     -22.822  58.643  40.045  1.00 26.36      A
ATOM   2999  CG  LEU A 392     -23.064  57.655  41.187  1.00 25.51      A
ATOM   3000  CD1 LEU A 392     -21.964  57.779  42.234  1.00 24.65      A
ATOM   3001  CD2 LEU A 392     -24.438  57.914  41.791  1.00 22.48      A
ATOM   3002  C   LEU A 392     -23.606  59.619  37.881  1.00 29.97      A
ATOM   3003  O   LEU A 392     -24.511  60.449  37.821  1.00 31.30      A
ATOM   3004  N   ALA A 393     -22.501  59.704  37.148  1.00 30.32      A
ATOM   3005  CA  ALA A 393     -22.293  60.809  36.219  1.00 31.10      A
ATOM   3006  CB  ALA A 393     -21.015  60.593  35.444  1.00 30.06      A
ATOM   3007  C   ALA A 393     -23.477  60.924  35.257  1.00 33.13      A
ATOM   3008  O   ALA A 393     -24.018  62.016  35.027  1.00 32.46      A
ATOM   3009  N   ARG A 394     -23.880  59.786  34.701  1.00 32.69      A
ATOM   3010  CA  ARG A 394     -24.990  59.762  33.772  1.00 33.01      A
ATOM   3011  CB  ARG A 394     -25.032  58.407  33.089  1.00 33.19      A
ATOM   3012  CG  ARG A 394     -23.747  58.145  32.357  1.00 32.79      A
ATOM   3013  CD  ARG A 394     -23.724  56.813  31.673  1.00 33.00      A
ATOM   3014  NE  ARG A 394     -22.510  56.702  30.879  1.00 34.51      A
ATOM   3015  CZ  ARG A 394     -22.195  55.647  30.142  1.00 32.84      A
ATOM   3016  NH1 ARG A 394     -23.017  54.603  30.105  1.00 30.06      A
ATOM   3017  NH2 ARG A 394     -21.065  55.645  29.441  1.00 30.68      A
ATOM   3018  C   ARG A 394     -26.309  60.062  34.470  1.00 34.31      A
ATOM   3019  O   ARG A 394     -27.221  60.637  33.874  1.00 34.40      A
ATOM   3020  N   ALA A 395     -26.414  59.678  35.736  1.00 33.56      A
ATOM   3021  CA  ALA A 395     -27.628  59.951  36.479  1.00 33.22      A
ATOM   3022  CB  ALA A 395     -27.522  59.383  37.879  1.00 32.33      A
ATOM   3023  C   ALA A 395     -27.802  61.468  36.524  1.00 34.29      A
ATOM   3024  O   ALA A 395     -28.896  61.987  36.286  1.00 33.65      A
ATOM   3025  N   ALA A 396     -26.713  62.178  36.806  1.00 34.09      A
ATOM   3026  CA  ALA A 396     -26.762  63.634  36.880  1.00 35.61      A
ATOM   3027  CB  ALA A 396     -25.444  64.180  37.381  1.00 34.80      A
ATOM   3028  C   ALA A 396     -27.082  64.227  35.521  1.00 36.88      A
ATOM   3029  O   ALA A 396     -27.990  65.039  35.384  1.00 39.40      A
ATOM   3030  N   TRP A 397     -26.332  63.830  34.508  1.00 37.91      A
ATOM   3031  CA  TRP A 397     -26.584  64.338  33.175  1.00 37.80      A
ATOM   3032  CB  TRP A 397     -25.650  63.661  32.189  1.00 38.44      A
ATOM   3033  CG  TRP A 397     -25.825  64.126  30.801  1.00 39.13      A
ATOM   3034  CD2 TRP A 397     -24.990  65.052  30.112  1.00 39.80      A
ATOM   3035  CE2 TRP A 397     -25.551  65.245  28.830  1.00 41.57      A
ATOM   3036  CE3 TRP A 397     -23.818  65.738  30.452  1.00 37.97      A
ATOM   3037  CD1 TRP A 397     -26.837  63.798  29.938  1.00 39.50      A
ATOM   3038  NE1 TRP A 397     -26.679  64.467  28.751  1.00 40.85      A
ATOM   3039  CZ2 TRP A 397     -24.983  66.106  27.889  1.00 41.31      A
ATOM   3040  CZ3 TRP A 397     -23.256  66.587  29.526  1.00 40.37      A
ATOM   3041  CH2 TRP A 397     -23.837  66.764  28.253  1.00 42.15      A
ATOM   3042  C   TRP A 397     -28.038  64.087  32.771  1.00 38.32      A
ATOM   3043  O   TRP A 397     -28.712  64.985  32.283  1.00 38.15      A
ATOM   3044  N   GLU A 398     -28.521  62.866  32.984  1.00 39.39      A
ATOM   3045  CA  GLU A 398     -29.894  62.504  32.628  1.00 40.50      A
ATOM   3046  CB  GLU A 398     -30.083  60.989  32.767  1.00 38.80      A
ATOM   3047  CG  GLU A 398     -29.470  60.216  31.603  1.00 40.99      A
ATOM   3048  CD  GLU A 398     -29.096  58.778  31.944  1.00 42.08      A
ATOM   3049  OE1 GLU A 398     -29.874  58.107  32.654  1.00 43.65      A
ATOM   3050  OE2 GLU A 398     -28.024  58.318  31.484  1.00 42.05      A
ATOM   3051  C   GLU A 398     -30.941  63.254  33.451  1.00 41.28      A
ATOM   3052  O   GLU A 398     -32.131  63.264  33.116  1.00 42.67      A
ATOM   3053  N   THR A 399     -30.486  63.897  34.518  1.00 40.28      A
ATOM   3054  CA  THR A 399     -31.365  64.654  35.384  1.00 40.28      A
ATOM   3055  CB  THR A 399     -30.820  64.697  36.809  1.00 40.23      A
ATOM   3056  OG1 THR A 399     -30.650  63.365  37.295  1.00 40.79      A
ATOM   3057  CG2 THR A 399     -31.772  65.457  37.717  1.00 42.61      A
ATOM   3058  C   THR A 399     -31.469  66.086  34.887  1.00 41.47      A
ATOM   3059  O   THR A 399     -32.523  66.707  34.980  1.00 38.92      A
ATOM   3060  N   ALA A 400     -30.358  66.601  34.365  1.00 44.18      A
ATOM   3061  CA  ALA A 400     -30.289  67.970  33.868  1.00 48.18      A
ATOM   3062  CB  ALA A 400     -28.841  68.449  33.891  1.00 46.30      A
ATOM   3063  C   ALA A 400     -30.869  68.152  32.465  1.00 51.86      A
ATOM   3064  O   ALA A 400     -31.382  69.225  32.137  1.00 52.61      A
ATOM   3065  N   ARG A 401     -30.778  67.108  31.643  1.00 55.65      A
ATOM   3066  CA  ARG A 401     -31.275  67.142  30.269  1.00 59.04      A
ATOM   3067  CB  ARG A 401     -30.108  67.133  29.289  1.00 58.44      A
ATOM   3068  CG  ARG A 401     -29.196  68.324  29.373  1.00 60.98      A
ATOM   3069  CD  ARG A 401     -27.882  67.990  28.688  1.00 65.88      A
ATOM   3070  NE  ARG A 401     -27.006  69.151  28.540  1.00 69.59      A
ATOM   3071  CZ  ARG A 401     -27.258  70.185  27.743  1.00 69.48      A
ATOM   3072  NH1 ARG A 401     -28.368  70.212  27.010  1.00 69.19      A
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ATOM   3073  NH2 ARG A 401     -26.397  71.194  27.679  1.00 68.29      A
ATOM   3074  C   ARG A 401     -32.149  65.932  29.971  1.00 61.88      A
ATOM   3075  O   ARG A 401     -31.880  64.829  30.456  1.00 62.58      A
ATOM   3076  N   HIS A 402     -33.197  66.131  29.177  1.00 64.48      A
ATOM   3077  CA  HIS A 402     -34.049  65.010  28.817  1.00 66.12      A
ATOM   3078  CB  HIS A 402     -35.419  65.488  28.328  1.00 69.50      A
ATOM   3079  CG  HIS A 402     -36.508  65.323  29.350  1.00 74.44      A
ATOM   3080  CD2 HIS A 402     -36.609  64.492  30.417  1.00 75.60      A
ATOM   3081  ND1 HIS A 402     -37.668  66.071  29.339  1.00 76.04      A
ATOM   3082  CE1 HIS A 402     -38.434  65.710  30.355  1.00 76.63      A
ATOM   3083  NE2 HIS A 402     -37.814  64.753  31.025  1.00 76.61      A
ATOM   3084  C   HIS A 402     -33.306  64.235  27.743  1.00 64.93      A
ATOM   3085  O   HIS A 402     -32.882  64.790  26.735  1.00 64.74      A
ATOM   3086  N   THR A 403     -33.121  62.949  28.000  1.00 64.33      A
ATOM   3087  CA  THR A 403     -32.400  62.067  27.101  1.00 63.33      A
ATOM   3088  CB  THR A 403     -31.152  61.527  27.809  1.00 63.22      A
ATOM   3089  OG1 THR A 403     -31.456  61.305  29.192  1.00 62.13      A
ATOM   3090  CG2 THR A 403     -30.008  62.522  27.701  1.00 62.82      A
ATOM   3091  C   THR A 403     -33.256  60.898  26.597  1.00 63.04      A
ATOM   3092  O   THR A 403     -34.174  60.436  27.281  1.00 62.43      A
ATOM   3093  N   PRO A 404     -32.955  60.403  25.386  1.00 62.71      A
ATOM   3094  CD  PRO A 404     -31.847  60.858  24.526  1.00 62.94      A
ATOM   3095  CA  PRO A 404     -33.680  59.290  24.759  1.00 61.62      A
ATOM   3096  CB  PRO A 404     -32.915  59.068  23.452  1.00 63.07      A
ATOM   3097  CG  PRO A 404     -32.311  60.422  23.164  1.00 63.22      A
ATOM   3098  C   PRO A 404     -33.707  58.031  25.618  1.00 59.27      A
ATOM   3099  O   PRO A 404     -34.715  57.325  25.677  1.00 60.10      A
ATOM   3100  N   ILE A 405     -32.585  57.750  26.270  1.00 56.75      A
ATOM   3101  CA  ILE A 405     -32.468  56.574  27.122  1.00 53.55      A
ATOM   3102  CB  ILE A 405     -31.359  55.620  26.606  1.00 52.93      A
ATOM   3103  CG2 ILE A 405     -31.197  54.448  27.554  1.00 52.58      A
ATOM   3104  CG1 ILE A 405     -31.708  55.113  25.205  1.00 51.91      A
ATOM   3105  CD1 ILE A 405     -32.945  54.248  25.156  1.00 53.27      A
ATOM   3106  C   ILE A 405     -32.136  56.979  28.554  1.00 51.83      A
ATOM   3107  O   ILE A 405     -31.359  57.913  28.784  1.00 52.93      A
ATOM   3108  N   ASN A 406     -32.730  56.272  29.511  1.00 48.49      A
ATOM   3109  CA  ASN A 406     -32.497  56.537  30.925  1.00 45.10      A
ATOM   3110  CB  ASN A 406     -33.826  56.647  31.665  1.00 44.45      A
ATOM   3111  CG  ASN A 406     -34.630  57.841  31.217  1.00 45.61      A
ATOM   3112  OD1 ASN A 406     -34.235  58.987  31.439  1.00 47.49      A
ATOM   3113  ND2 ASN A 406     -35.759  57.585  30.568  1.00 46.30      A
ATOM   3114  C   ASN A 406     -31.638  55.449  31.555  1.00 43.52      A
ATOM   3115  O   ASN A 406     -32.145  54.458  32.087  1.00 43.27      A
ATOM   3116  N   SER A 407     -30.327  55.639  31.485  1.00 40.65      A
ATOM   3117  CA  SER A 407     -29.408  54.673  32.047  1.00 38.74      A
ATOM   3118  CB  SER A 407     -27.976  55.160  31.894  1.00 37.07      A
ATOM   3119  OG  SER A 407     -27.714  56.196  32.824  1.00 41.07      A
ATOM   3120  C   SER A 407     -29.691  54.442  33.526  1.00 39.24      A
ATOM   3121  O   SER A 407     -29.539  53.329  34.021  1.00 40.77      A
ATOM   3122  N   TRP A 408     -30.105  55.480  34.244  1.00 38.19      A
ATOM   3123  CA  TRP A 408     -30.345  55.301  35.669  1.00 37.12      A
ATOM   3124  CB  TRP A 408     -30.793  56.604  36.317  1.00 36.18      A
ATOM   3125  CG  TRP A 408     -32.046  57.158  35.791  1.00 36.23      A
ATOM   3126  CD2 TRP A 408     -33.362  56.915  36.297  1.00 35.82      A
ATOM   3127  CE2 TRP A 408     -34.252  57.705  35.542  1.00 35.89      A
ATOM   3128  CE3 TRP A 408     -33.875  56.103  37.316  1.00 35.45      A
ATOM   3129  CD1 TRP A 408     -32.181  58.053  34.776  1.00 37.15      A
ATOM   3130  NE1 TRP A 408     -33.506  58.394  34.621  1.00 37.72      A
ATOM   3131  CZ2 TRP A 408     -35.626  57.714  35.776  1.00 34.56      A
ATOM   3132  CZ3 TRP A 408     -35.233  56.108  37.548  1.00 35.00      A
ATOM   3133  CH2 TRP A 408     -36.097  56.911  36.779  1.00 35.62      A
ATOM   3134  C   TRP A 408     -31.353  54.211  35.969  1.00 35.99      A
ATOM   3135  O   TRP A 408     -31.145  53.385  36.866  1.00 35.16      A
ATOM   3136  N   LEU A 409     -32.440  54.213  35.207  1.00 35.17      A
ATOM   3137  CA  LEU A 409     -33.502  53.233  35.363  1.00 34.39      A
ATOM   3138  CB  LEU A 409     -34.673  53.591  34.450  1.00 33.91      A
ATOM   3139  CG  LEU A 409     -35.862  52.637  34.456  1.00 33.12      A
ATOM   3140  CD1 LEU A 409     -36.338  52.428  35.881  1.00 32.20      A
ATOM   3141  CD2 LEU A 409     -36.965  53.214  33.575  1.00 31.73      A
ATOM   3142  C   LEU A 409     -32.954  51.860  35.007  1.00 34.62      A
ATOM   3143  O   LEU A 409     -33.307  50.854  35.632  1.00 35.31      A
ATOM   3144  N   GLY A 410     -32.088  51.830  33.994  1.00 33.83      A
ATOM   3145  CA  GLY A 410     -31.470  50.586  33.581  1.00 29.85      A
ATOM   3146  C   GLY A 410     -30.530  50.113  34.675  1.00 30.90      A
ATOM   3147  O   GLY A 410     -30.455  48.907  34.962  1.00 30.42      A
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ATOM   3148  N   ASN A 411     -29.818  51.055  35.302  1.00 31.11      A
ATOM   3149  CA  ASN A 411     -28.888  50.706  36.378  1.00 31.68      A
ATOM   3150  CB  ASN A 411     -27.917  51.849  36.668  1.00 29.74      A
ATOM   3151  CG  ASN A 411     -26.725  51.842  35.729  1.00 30.29      A
ATOM   3152  OD1 ASN A 411     -26.197  50.782  35.387  1.00 29.34      A
ATOM   3153  ND2 ASN A 411     -26.288  53.024  35.313  1.00 30.82      A
ATOM   3154  C   ASN A 411     -29.601  50.286  37.657  1.00 33.34      A
ATOM   3155  O   ASN A 411     -29.108  49.417  38.385  1.00 33.17      A
ATOM   3156  N   ILE A 412     -30.755  50.885  37.944  1.00 33.21      A
ATOM   3157  CA  ILE A 412     -31.487  50.475  39.134  1.00 34.05      A
ATOM   3158  CB  ILE A 412     -32.820  51.251  39.308  1.00 33.63      A
ATOM   3159  CG2 ILE A 412     -33.725  50.525  40.296  1.00 30.53      A
ATOM   3160  CG1 ILE A 412     -32.538  52.663  39.812  1.00 34.88      A
ATOM   3161  CD1 ILE A 412     -33.776  53.404  40.270  1.00 38.72      A
ATOM   3162  C   ILE A 412     -31.808  48.992  38.967  1.00 34.58      A
ATOM   3163  O   ILE A 412     -31.513  48.169  39.828  1.00 36.58      A
ATOM   3164  N   ILE A 413     -32.391  48.659  37.827  1.00 34.27      A
ATOM   3165  CA  ILE A 413     -32.771  47.293  37.547  1.00 33.92      A
ATOM   3166  CB  ILE A 413     -33.478  47.219  36.181  1.00 32.77      A
ATOM   3167  CG2 ILE A 413     -33.826  45.782  35.851  1.00 30.54      A
ATOM   3168  CG1 ILE A 413     -34.733  48.095  36.217  1.00 33.06      A
ATOM   3169  CD1 ILE A 413     -35.536  48.094  34.942  1.00 33.52      A
ATOM   3170  C   ILE A 413     -31.612  46.290  37.598  1.00 35.86      A
ATOM   3171  O   ILE A 413     -31.766  45.192  38.148  1.00 35.96      A
ATOM   3172  N   MET A 414     -30.454  46.657  37.051  1.00 35.09      A
ATOM   3173  CA  MET A 414     -29.318  45.733  37.043  1.00 35.58      A
ATOM   3174  CB  MET A 414     -28.381  46.056  35.869  1.00 37.88      A
ATOM   3175  CG  MET A 414     -29.027  45.956  34.485  1.00 39.91      A
ATOM   3176  SD  MET A 414     -29.745  44.323  34.125  1.00 43.28      A
ATOM   3177  CE  MET A 414     -28.279  43.390  33.611  1.00 39.56      A
ATOM   3178  C   MET A 414     -28.518  45.727  38.345  1.00 35.39      A
ATOM   3179  O   MET A 414     -27.812  44.762  38.667  1.00 34.14      A
ATOM   3180  N   TYR A 415     -28.641  46.800  39.112  1.00 35.37      A
ATOM   3181  CA  TYR A 415     -27.897  46.889  40.355  1.00 34.62      A
ATOM   3182  CB  TYR A 415     -26.866  48.002  40.227  1.00 33.86      A
ATOM   3183  CG  TYR A 415     -25.848  47.694  39.159  1.00 34.58      A
ATOM   3184  CD1 TYR A 415     -24.819  46.778  39.397  1.00 36.33      A
ATOM   3185  CE1 TYR A 415     -23.868  46.480  38.413  1.00 34.97      A
ATOM   3186  CD2 TYR A 415     -25.910  48.304  37.905  1.00 33.93      A
ATOM   3187  CE2 TYR A 415     -24.967  48.012  36.912  1.00 32.86      A
ATOM   3188  CZ  TYR A 415     -23.947  47.099  37.175  1.00 34.02      A
ATOM   3189  OH  TYR A 415     -23.001  46.802  36.214  1.00 32.96      A
ATOM   3190  C   TYR A 415     -28.768  47.084  41.582  1.00 32.94      A
ATOM   3191  O   TYR A 415     -28.277  47.461  42.647  1.00 33.72      A
ATOM   3192  N   ALA A 416     -30.055  46.791  41.434  1.00 30.51      A
ATOM   3193  CA  ALA A 416     -30.998  46.927  42.537  1.00 31.51      A
ATOM   3194  CB  ALA A 416     -32.247  46.122  42.245  1.00 31.05      A
ATOM   3195  C   ALA A 416     -30.418  46.515  43.892  1.00 31.38      A
ATOM   3196  O   ALA A 416     -30.773  47.075  44.913  1.00 32.00      A
ATOM   3197  N   PRO A 417     -29.526  45.518  43.916  1.00 32.36      A
ATOM   3198  CD  PRO A 417     -29.349  44.462  42.906  1.00 32.64      A
ATOM   3199  CA  PRO A 417     -28.948  45.094  45.196  1.00 33.19      A
ATOM   3200  CB  PRO A 417     -28.440  43.683  44.899  1.00 32.13      A
ATOM   3201  CG  PRO A 417     -29.277  43.239  43.753  1.00 31.92      A
ATOM   3202  C   PRO A 417     -27.822  45.967  45.735  1.00 33.30      A
ATOM   3203  O   PRO A 417     -27.515  45.919  46.927  1.00 34.32      A
ATOM   3204  N   THR A 418     -27.200  46.761  44.877  1.00 32.01      A
ATOM   3205  CA  THR A 418     -26.084  47.556  45.347  1.00 32.55      A
ATOM   3206  CB  THR A 418     -25.315  48.218  44.200  1.00 32.25      A
ATOM   3207  OG1 THR A 418     -26.178  49.119  43.508  1.00 32.45      A
ATOM   3208  CG2 THR A 418     -24.786  47.169  43.240  1.00 31.35      A
ATOM   3209  C   THR A 418     -26.438  48.625  46.345  1.00 32.93      A
ATOM   3210  O   THR A 418     -27.583  49.039  46.471  1.00 34.12      A
ATOM   3211  N   LEU A 419     -25.408  49.054  47.056  1.00 33.52      A
ATOM   3212  CA  LEU A 419     -25.489  50.081  48.073  1.00 33.12      A
ATOM   3213  CB  LEU A 419     -24.124  50.212  48.719  1.00 34.78      A
ATOM   3214  CG  LEU A 419     -23.998  51.080  49.945  1.00 37.88      A
ATOM   3215  CD1 LEU A 419     -24.760  50.423  51.084  1.00 40.24      A
ATOM   3216  CD2 LEU A 419     -22.533  51.230  50.299  1.00 39.24      A
ATOM   3217  C   LEU A 419     -25.879  51.415  47.447  1.00 33.71      A
ATOM   3218  O   LEU A 419     -26.816  52.083  47.887  1.00 34.96      A
ATOM   3219  N   TRP A 420     -25.154  51.796  46.403  1.00 32.38      A
ATOM   3220  CA  TRP A 420     -25.401  53.059  45.726  1.00 31.85      A
ATOM   3221  CB  TRP A 420     -24.239  53.364  44.782  1.00 29.53      A
ATOM   3222  CG  TRP A 420     -23.848  52.192  43.931  1.00 27.93      A
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ATOM   3223  CD2 TRP A 420     -24.196  51.979  42.564  1.00 25.23      A
ATOM   3224  CE2 TRP A 420     -23.645  50.744  42.182  1.00 25.44      A
ATOM   3225  CE3 TRP A 420     -24.925  52.713  41.626  1.00 23.83      A
ATOM   3226  CD1 TRP A 420     -23.119  51.108  44.313  1.00 26.80      A
ATOM   3227  NE1 TRP A 420     -22.991  50.233  43.270  1.00 26.30      A
ATOM   3228  CZ2 TRP A 420     -23.795  50.225  40.897  1.00 26.67      A
ATOM   3229  CZ3 TRP A 420     -25.075  52.202  40.355  1.00 24.56      A
ATOM   3230  CH2 TRP A 420     -24.514  50.968  39.998  1.00 26.24      A
ATOM   3231  C   TRP A 420     -26.726  53.137  44.962  1.00 33.02      A
ATOM   3232  O   TRP A 420     -27.388  54.188  44.949  1.00 35.83      A
ATOM   3233  N   ALA A 421     -27.122  52.041  44.329  1.00 30.87      A
ATOM   3234  CA  ALA A 421     -28.363  52.038  43.566  1.00 30.68      A
ATOM   3235  CB  ALA A 421     -28.487  50.747  42.765  1.00 31.02      A
ATOM   3236  C   ALA A 421     -29.578  52.208  44.465  1.00 31.12      A
ATOM   3237  O   ALA A 421     -30.543  52.872  44.106  1.00 32.44      A
ATOM   3238  N   ARG A 422     -29.540  51.605  45.642  1.00 31.79      A
ATOM   3239  CA  ARG A 422     -30.666  51.720  46.547  1.00 32.11      A
ATOM   3240  CB  ARG A 422     -30.610  50.608  47.593  1.00 31.89      A
ATOM   3241  CG  ARG A 422     -30.603  49.207  47.004  1.00 29.83      A
ATOM   3242  CD  ARG A 422     -30.311  48.159  48.061  1.00 30.30      A
ATOM   3243  NE  ARG A 422     -31.408  47.999  49.018  1.00 32.29      A
ATOM   3244  CZ  ARG A 422     -31.281  47.387  50.192  1.00 31.62      A
ATOM   3245  NH1 ARG A 422     -30.102  46.888  50.541  1.00 31.90      A
ATOM   3246  NH2 ARG A 422     -32.324  47.268  51.014  1.00 30.73      A
ATOM   3247  C   ARG A 422     -30.650  53.080  47.232  1.00 33.79      A
ATOM   3248  O   ARG A 422     -31.614  53.847  47.155  1.00 35.37      A
ATOM   3249  N   MET A 423     -29.538  53.393  47.884  1.00 35.14      A
ATOM   3250  CA  MET A 423     -29.430  54.652  48.611  1.00 34.73      A
ATOM   3251  CB  MET A 423     -28.222  54.608  49.534  1.00 32.70      A
ATOM   3252  CG  MET A 423     -28.338  53.513  50.557  1.00 31.00      A
ATOM   3253  SD  MET A 423     -26.957  53.500  51.677  1.00 34.46      A
ATOM   3254  CE  MET A 423     -27.449  54.798  52.811  1.00 30.99      A
ATOM   3255  C   MET A 423     -29.386  55.913  47.770  1.00 34.24      A
ATOM   3256  O   MET A 423     -29.896  56.946  48.192  1.00 34.29      A
ATOM   3257  N   ILE A 424     -28.798  55.842  46.580  1.00 33.75      A
ATOM   3258  CA  ILE A 424     -28.716  57.040  45.756  1.00 33.33      A
ATOM   3259  CB  ILE A 424     -27.267  57.258  45.255  1.00 31.09      A
ATOM   3260  CG2 ILE A 424     -27.173  58.573  44.499  1.00 26.03      A
ATOM   3261  CG1 ILE A 424     -26.315  57.257  46.465  1.00 31.12      A
ATOM   3262  CD1 ILE A 424     -24.830  57.265  46.156  1.00 28.07      A
ATOM   3263  C   ILE A 424     -29.690  57.086  44.578  1.00 35.12      A
ATOM   3264  O   ILE A 424     -30.618  57.902  44.569  1.00 34.51      A
ATOM   3265  N   LEU A 425     -29.494  56.203  43.600  1.00 35.17      A
ATOM   3266  CA  LEU A 425     -30.345  56.179  42.414  1.00 33.72      A
ATOM   3267  CB  LEU A 425     -29.934  55.020  41.501  1.00 32.85      A
ATOM   3268  CG  LEU A 425     -28.550  55.247  40.867  1.00 32.20      A
ATOM   3269  CD1 LEU A 425     -28.203  54.106  39.939  1.00 31.49      A
ATOM   3270  CD2 LEU A 425     -28.549  56.565  40.100  1.00 28.71      A
ATOM   3271  C   LEU A 425     -31.831  56.116  42.732  1.00 34.38      A
ATOM   3272  O   LEU A 425     -32.630  56.852  42.147  1.00 35.33      A
ATOM   3273  N   MET A 426     -32.214  55.250  43.660  1.00 33.77      A
ATOM   3274  CA  MET A 426     -33.618  55.156  44.020  1.00 34.14      A
ATOM   3275  CB  MET A 426     -33.854  53.932  44.916  1.00 31.68      A
ATOM   3276  CG  MET A 426     -33.713  52.614  44.165  1.00 32.47      A
ATOM   3277  SD  MET A 426     -34.288  51.145  45.067  1.00 35.96      A
ATOM   3278  CE  MET A 426     -33.136  49.887  44.532  1.00 31.57      A
ATOM   3279  C   MET A 426     -34.128  56.447  44.688  1.00 34.84      A
ATOM   3280  O   MET A 426     -35.027  57.106  44.162  1.00 35.46      A
ATOM   3281  N   THR A 427     -33.549  56.822  45.825  1.00 35.85      A
ATOM   3282  CA  THR A 427     -33.982  58.031  46.531  1.00 35.73      A
ATOM   3283  CB  THR A 427     -32.964  58.461  47.596  1.00 33.68      A
ATOM   3284  OG1 THR A 427     -32.613  57.342  48.413  1.00 33.84      A
ATOM   3285  CG2 THR A 427     -33.554  59.547  48.462  1.00 31.51      A
ATOM   3286  C   THR A 427     -34.165  59.213  45.581  1.00 37.84      A
ATOM   3287  O   THR A 427     -35.275  59.702  45.360  1.00 38.09      A
ATOM   3288  N   HIS A 428     -33.047  59.659  45.025  1.00 38.67      A
ATOM   3289  CA  HIS A 428     -33.001  60.782  44.109  1.00 39.67      A
ATOM   3290  CB  HIS A 428     -31.657  60.775  43.390  1.00 40.74      A
ATOM   3291  CG  HIS A 428     -31.519  61.858  42.377  1.00 41.37      A
ATOM   3292  CD2 HIS A 428     -31.422  61.810  41.028  1.00 42.90      A
ATOM   3293  ND1 HIS A 428     -31.519  63.192  42.718  1.00 43.20      A
ATOM   3294  CE1 HIS A 428     -31.429  63.922  41.620  1.00 45.77      A
ATOM   3295  NE2 HIS A 428     -31.368  63.108  40.581  1.00 45.16      A
ATOM   3296  C   HIS A 428     -34.117  60.840  43.069  1.00 40.66      A
ATOM   3297  O   HIS A 428     -34.907  61.793  43.032  1.00 40.76      A
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ATOM   3298  N   PHE A 429     -34.165  59.823  42.217  1.00 40.41      A
ATOM   3299  CA  PHE A 429     -35.153  59.768  41.155  1.00 40.83      A
ATOM   3300  CB  PHE A 429     -34.801  58.645  40.174  1.00 39.95      A
ATOM   3301  CG  PHE A 429     -33.611  58.968  39.321  1.00 39.24      A
ATOM   3302  CD1 PHE A 429     -33.696  59.955  38.340  1.00 38.77      A
ATOM   3303  CD2 PHE A 429     -32.379  58.361  39.554  1.00 38.62      A
ATOM   3304  CE1 PHE A 429     -32.565  60.346  37.613  1.00 38.00      A
ATOM   3305  CE2 PHE A 429     -31.244  58.748  38.834  1.00 38.57      A
ATOM   3306  CZ  PHE A 429     -31.339  59.740  37.862  1.00 37.96      A
ATOM   3307  C   PHE A 429     -36.589  59.649  41.625  1.00 41.59      A
ATOM   3308  O   PHE A 429     -37.474  60.287  41.056  1.00 42.05      A
ATOM   3309  N   PHE A 430     -36.849  58.844  42.648  1.00 41.37      A
ATOM   3310  CA  PHE A 430     -38.222  58.766  43.106  1.00 42.65      A
ATOM   3311  CB  PHE A 430     -38.407  57.645  44.116  1.00 41.63      A
ATOM   3312  CG  PHE A 430     -38.770  56.344  43.479  1.00 40.64      A
ATOM   3313  CD1 PHE A 430     -37.799  55.563  42.860  1.00 39.52      A
ATOM   3314  CD2 PHE A 430     -40.095  55.926  43.437  1.00 39.01      A
ATOM   3315  CE1 PHE A 430     -38.143  54.385  42.204  1.00 39.03      A
ATOM   3316  CE2 PHE A 430     -40.449  54.752  42.785  1.00 38.71      A
ATOM   3317  CZ  PHE A 430     -39.469  53.980  42.168  1.00 39.82      A
ATOM   3318  C   PHE A 430     -38.591  60.112  43.695  1.00 44.31      A
ATOM   3319  O   PHE A 430     -39.721  60.575  43.557  1.00 45.45      A
ATOM   3320  N   SER A 431     -37.617  60.755  44.325  1.00 45.36      A
ATOM   3321  CA  SER A 431     -37.830  62.075  44.901  1.00 46.07      A
ATOM   3322  CB  SER A 431     -36.527  62.591  45.521  1.00 46.22      A
ATOM   3323  OG  SER A 431     -36.531  64.004  45.637  1.00 48.93      A
ATOM   3324  C   SER A 431     -38.300  63.023  43.797  1.00 45.79      A
ATOM   3325  O   SER A 431     -39.271  63.759  43.967  1.00 44.68      A
ATOM   3326  N   ILE A 432     -37.610  62.995  42.663  1.00 45.88      A
ATOM   3327  CA  ILE A 432     -37.963  63.857  41.539  1.00 46.55      A
ATOM   3328  CB  ILE A 432     -36.808  63.938  40.503  1.00 45.09      A
ATOM   3329  CG2 ILE A 432     -37.307  64.554  39.203  1.00 44.51      A
ATOM   3330  CG1 ILE A 432     -35.658  64.763  41.071  1.00 43.30      A
ATOM   3331  CD1 ILE A 432     -34.484  64.881  40.140  1.00 43.75      A
ATOM   3332  C   ILE A 432     -39.246  63.434  40.810  1.00 47.51      A
ATOM   3333  O   ILE A 432     -39.988  64.287  40.319  1.00 47.38      A
ATOM   3334  N   LEU A 433     -39.514  62.133  40.730  1.00 47.52      A
ATOM   3335  CA  LEU A 433     -40.721  61.691  40.042  1.00 49.07      A
ATOM   3336  CB  LEU A 433     -40.700  60.178  39.790  1.00 47.40      A
ATOM   3337  CG  LEU A 433     -39.689  59.719  38.731  1.00 47.23      A
ATOM   3338  CD1 LEU A 433     -39.842  58.229  38.474  1.00 45.04      A
ATOM   3339  CD2 LEU A 433     -39.899  60.496  37.445  1.00 45.30      A
ATOM   3340  C   LEU A 433     -41.964  62.081  40.828  1.00 50.65      A
ATOM   3341  O   LEU A 433     -43.046  62.228  40.258  1.00 50.72      A
ATOM   3342  N   LEU A 434     -41.812  62.249  42.138  1.00 51.84      A
ATOM   3343  CA  LEU A 434     -42.936  62.652  42.975  1.00 52.72      A
ATOM   3344  CB  LEU A 434     -42.603  62.459  44.455  1.00 52.80      A
ATOM   3345  CG  LEU A 434     -42.725  61.026  44.958  1.00 52.14      A
ATOM   3346  CD1 LEU A 434     -42.154  60.889  46.361  1.00 51.31      A
ATOM   3347  CD2 LEU A 434     -44.190  60.640  44.922  1.00 52.74      A
ATOM   3348  C   LEU A 434     -43.219  64.121  42.712  1.00 53.16      A
ATOM   3349  O   LEU A 434     -44.329  64.503  42.348  1.00 53.64      A
ATOM   3350  N   ALA A 435     -42.190  64.937  42.884  1.00 53.13      A
ATOM   3351  CA  ALA A 435     -42.299  66.371  42.685  1.00 54.95      A
ATOM   3352  CB  ALA A 435     -40.933  67.012  42.875  1.00 53.63      A
ATOM   3353  C   ALA A 435     -42.867  66.752  41.319  1.00 56.79      A
ATOM   3354  O   ALA A 435     -43.408  67.844  41.145  1.00 58.30      A
ATOM   3355  N   GLN A 436     -42.744  65.857  40.350  1.00 57.72      A
ATOM   3356  CA  GLN A 436     -43.234  66.139  39.011  1.00 58.86      A
ATOM   3357  CB  GLN A 436     -42.085  66.002  38.014  1.00 60.51      A
ATOM   3358  CG  GLN A 436     -40.790  66.624  38.523  1.00 63.62      A
ATOM   3359  CD  GLN A 436     -39.617  66.424  37.583  1.00 64.91      A
ATOM   3360  OE1 GLN A 436     -39.376  65.318  37.094  1.00 65.35      A
ATOM   3361  NE2 GLN A 436     -38.870  67.496  37.337  1.00 64.77      A
ATOM   3362  C   GLN A 436     -44.354  65.178  38.664  1.00 59.46      A
ATOM   3363  O   GLN A 436     -44.789  65.104  37.517  1.00 59.97      A
ATOM   3364  N   GLU A 437     -44.818  64.447  39.672  1.00 60.44      A
ATOM   3365  CA  GLU A 437     -45.890  63.473  39.503  1.00 62.28      A
ATOM   3366  CB  GLU A 437     -47.246  64.165  39.613  1.00 64.24      A
ATOM   3367  CG  GLU A 437     -47.683  64.413  41.041  1.00 67.80      A
ATOM   3368  CD  GLU A 437     -48.729  65.502  41.144  1.00 70.76      A
ATOM   3369  OE1 GLU A 437     -49.261  65.703  42.258  1.00 72.23      A
ATOM   3370  OE2 GLU A 437     -49.010  66.160  40.116  1.00 71.58      A
ATOM   3371  C   GLU A 437     -45.799  62.709  38.192  1.00 61.81      A
ATOM   3372  O   GLU A 437     -46.697  62.766  37.357  1.00 61.90      A
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ATOM   3373  N   GLN A 438     -44.700  61.991  38.015  1.00 61.63      A
ATOM   3374  CA  GLN A 438     -44.510  61.210  36.810  1.00 60.81      A
ATOM   3375  CB  GLN A 438     -43.412  61.831  35.951  1.00 61.31      A
ATOM   3376  CG  GLN A 438     -43.772  63.211  35.432  1.00 62.98      A
ATOM   3377  CD  GLN A 438     -42.683  63.815  34.569  1.00 65.68      A
ATOM   3378  OE1 GLN A 438     -41.511  63.875  34.967  1.00 67.45      A
ATOM   3379  NE2 GLN A 438     -43.061  64.276  33.383  1.00 65.69      A
ATOM   3380  C   GLN A 438     -44.184  59.764  37.156  1.00 60.00      A
ATOM   3381  O   GLN A 438     -43.652  59.026  36.332  1.00 60.34      A
ATOM   3382  N   LEU A 439     -44.520  59.365  38.380  1.00 59.28      A
ATOM   3383  CA  LEU A 439     -44.288  58.000  38.836  1.00 59.60      A
ATOM   3384  CB  LEU A 439     -44.833  57.800  40.254  1.00 58.21      A
ATOM   3385  CG  LEU A 439     -44.065  58.434  41.417  1.00 59.17      A
ATOM   3386  CD1 LEU A 439     -44.721  58.060  42.738  1.00 57.80      A
ATOM   3387  CD2 LEU A 439     -42.623  57.957  41.396  1.00 57.93      A
ATOM   3388  C   LEU A 439     -44.959  56.991  37.912  1.00 61.18      A
ATOM   3389  O   LEU A 439     -44.654  55.795  37.954  1.00 61.70      A
ATOM   3390  N   GLU A 440     -45.874  57.472  37.074  1.00 62.62      A
ATOM   3391  CA  GLU A 440     -46.593  56.591  36.164  1.00 63.69      A
ATOM   3392  CB  GLU A 440     -48.099  56.820  36.286  1.00 67.51      A
ATOM   3393  CG  GLU A 440     -48.654  56.346  37.614  1.00 73.49      A
ATOM   3394  CD  GLU A 440     -50.098  56.741  37.832  1.00 76.89      A
ATOM   3395  OE1 GLU A 440     -50.389  57.955  37.761  1.00 78.41      A
ATOM   3396  OE2 GLU A 440     -50.933  55.839  38.083  1.00 78.49      A
ATOM   3397  C   GLU A 440     -46.167  56.765  34.731  1.00 61.25      A
ATOM   3398  O   GLU A 440     -46.580  56.002  33.865  1.00 60.59      A
ATOM   3399  N   LYS A 441     -45.349  57.775  34.480  1.00 59.67      A
ATOM   3400  CA  LYS A 441     -44.871  58.010  33.134  1.00 59.39      A
ATOM   3401  CB  LYS A 441     -44.280  59.411  33.020  1.00 59.81      A
ATOM   3402  CG  LYS A 441     -43.824  59.773  31.619  1.00 61.59      A
ATOM   3403  CD  LYS A 441     -43.166  61.145  31.585  1.00 63.22      A
ATOM   3404  CE  LYS A 441     -42.705  61.491  30.176  1.00 65.73      A
ATOM   3405  NZ  LYS A 441     -41.973  62.794  30.103  1.00 69.04      A
ATOM   3406  C   LYS A 441     -43.807  56.961  32.814  1.00 59.60      A
ATOM   3407  O   LYS A 441     -42.781  56.866  33.493  1.00 60.73      A
ATOM   3408  N   ALA A 442     -44.065  56.159  31.788  1.00 58.01      A
ATOM   3409  CA  ALA A 442     -43.123  55.131  31.387  1.00 56.63      A
ATOM   3410  CB  ALA A 442     -43.779  54.193  30.389  1.00 55.30      A
ATOM   3411  C   ALA A 442     -41.886  55.785  30.769  1.00 56.28      A
ATOM   3412  O   ALA A 442     -41.991  56.778  30.047  1.00 55.70      A
ATOM   3413  N   LEU A 443     -40.716  55.224  31.060  1.00 55.21      A
ATOM   3414  CA  LEU A 443     -39.458  55.741  30.533  1.00 53.88      A
ATOM   3415  CB  LEU A 443     -38.605  56.262  31.687  1.00 54.44      A
ATOM   3416  CG  LEU A 443     -39.268  57.357  32.527  1.00 55.68      A
ATOM   3417  CD1 LEU A 443     -38.563  57.469  33.864  1.00 56.71      A
ATOM   3418  CD2 LEU A 443     -39.230  58.685  31.779  1.00 54.46      A
ATOM   3419  C   LEU A 443     -38.709  54.633  29.789  1.00 52.81      A
ATOM   3420  O   LEU A 443     -38.854  53.459  30.116  1.00 52.52      A
ATOM   3421  N   ASP A 444     -37.918  54.996  28.786  1.00 51.92      A
ATOM   3422  CA  ASP A 444     -37.159  53.997  28.041  1.00 51.32      A
ATOM   3423  CB  ASP A 444     -36.930  54.426  26.583  1.00 53.22      A
ATOM   3424  CG  ASP A 444     -38.219  54.617  25.800  1.00 56.32      A
ATOM   3425  OD1 ASP A 444     -39.166  53.815  25.980  1.00 57.79      A
ATOM   3426  OD2 ASP A 444     -38.271  55.566  24.980  1.00 56.18      A
ATOM   3427  C   ASP A 444     -35.787  53.782  28.669  1.00 49.93      A
ATOM   3428  O   ASP A 444     -35.032  54.727  28.868  1.00 49.91      A
ATOM   3429  N   CYS A 445     -35.461  52.543  28.988  1.00 48.09      A
ATOM   3430  CA  CYS A 445     -34.139  52.254  29.525  1.00 47.44      A
ATOM   3431  CB  CYS A 445     -34.217  51.783  30.974  1.00 47.79      A
ATOM   3432  SG  CYS A 445     -34.918  50.146  31.154  1.00 46.33      A
ATOM   3433  C   CYS A 445     -33.588  51.138  28.639  1.00 47.68      A
ATOM   3434  O   CYS A 445     -34.290  50.629  27.765  1.00 45.24      A
ATOM   3435  N   GLN A 446     -32.342  50.746  28.858  1.00 47.76      A
ATOM   3436  CA  GLN A 446     -31.768  49.708  28.030  1.00 48.22      A
ATOM   3437  CB  GLN A 446     -30.712  50.320  27.111  1.00 49.73      A
ATOM   3438  CG  GLN A 446     -30.942  50.005  25.645  1.00 55.11      A
ATOM   3439  CD  GLN A 446     -30.007  50.772  24.727  1.00 57.77      A
ATOM   3440  OE1 GLN A 446     -28.782  50.669  24.847  1.00 57.52      A
ATOM   3441  NE2 GLN A 446     -30.582  51.546  23.801  1.00 56.53      A
ATOM   3442  C   GLN A 446     -31.170  48.540  28.801  1.00 47.60      A
ATOM   3443  O   GLN A 446     -30.463  48.727  29.790  1.00 47.53      A
ATOM   3444  N   ILE A 447     -31.464  47.332  28.331  1.00 46.52      A
ATOM   3445  CA  ILE A 447     -30.953  46.112  28.935  1.00 45.69      A
ATOM   3446  CB  ILE A 447     -32.076  45.315  29.597  1.00 46.02      A
ATOM   3447  CG2 ILE A 447     -31.512  44.043  30.233  1.00 45.53      A
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ATOM	3448	CG1	ILE	A	447	-32.764	46.193	30.641	1.00	44.97	A
ATOM	3449	CD1	ILE	A	447	-33.914	45.526	31.322	1.00	46.83	A
ATOM	3450	C	ILE	A	447	-30.297	45.260	27.852	1.00	46.02	A
ATOM	3451	O	ILE	A	447	-30.958	44.802	26.920	1.00	45.10	A
ATOM	3452	N	TYR	A	448	-28.989	45.057	27.980	1.00	47.04	A
ATOM	3453	CA	TYR	A	448	-28.223	44.277	27.012	1.00	46.50	A
ATOM	3454	CB	TYR	A	448	-28.532	42.793	27.130	1.00	47.03	A
ATOM	3455	CG	TYR	A	448	-28.059	42.161	28.406	1.00	47.89	A
ATOM	3456	CD1	TYR	A	448	-26.901	42.604	29.042	1.00	47.05	A
ATOM	3457	CE1	TYR	A	448	-26.428	41.970	30.194	1.00	49.29	A
ATOM	3458	CD2	TYR	A	448	-28.738	41.071	28.949	1.00	49.35	A
ATOM	3459	CE2	TYR	A	448	-28.276	40.431	30.090	1.00	50.77	A
ATOM	3460	CZ	TYR	A	448	-27.122	40.882	30.707	1.00	50.59	A
ATOM	3461	OH	TYR	A	448	-26.665	40.224	31.825	1.00	53.95	A
ATOM	3462	C	TYR	A	448	-28.513	44.721	25.593	1.00	46.48	A
ATOM	3463	O	TYR	A	448	-28.866	43.910	24.731	1.00	44.69	A
ATOM	3464	N	GLY	A	449	-28.372	46.021	25.367	1.00	47.02	A
ATOM	3465	CA	GLY	A	449	-28.596	46.573	24.049	1.00	47.72	A
ATOM	3466	C	GLY	A	449	-30.039	46.798	23.658	1.00	47.95	A
ATOM	3467	O	GLY	A	449	-30.318	47.696	22.861	1.00	49.90	A
ATOM	3468	N	ALA	A	450	-30.957	46.000	24.199	1.00	46.58	A
ATOM	3469	CA	ALA	A	450	-32.365	46.152	23.855	1.00	46.74	A
ATOM	3470	CB	ALA	A	450	-33.101	44.849	24.107	1.00	47.70	A
ATOM	3471	C	ALA	A	450	-33.045	47.305	24.607	1.00	47.70	A
ATOM	3472	O	ALA	A	450	-32.773	47.551	25.781	1.00	46.18	A
ATOM	3473	N	CYS	A	451	-33.936	48.007	23.913	1.00	47.98	A
ATOM	3474	CA	CYS	A	451	-34.647	49.129	24.501	1.00	48.99	A
ATOM	3475	CB	CYS	A	451	-34.868	50.213	23.449	1.00	48.93	A
ATOM	3476	SG	CYS	A	451	-35.585	51.735	24.106	1.00	51.24	A
ATOM	3477	C	CYS	A	451	-35.987	48.691	25.081	1.00	49.92	A
ATOM	3478	O	CYS	A	451	-36.813	48.121	24.375	1.00	50.39	A
ATOM	3479	N	TYR	A	452	-36.186	48.972	26.370	1.00	51.63	A
ATOM	3480	CA	TYR	A	452	-37.407	48.623	27.104	1.00	52.23	A
ATOM	3481	CB	TYR	A	452	-37.063	47.707	28.286	1.00	52.58	A
ATOM	3482	CG	TYR	A	452	-36.664	46.300	27.916	1.00	54.64	A
ATOM	3483	CD1	TYR	A	452	-37.627	45.321	27.687	1.00	56.67	A
ATOM	3484	CE1	TYR	A	452	-37.270	44.031	27.315	1.00	58.38	A
ATOM	3485	CD2	TYR	A	452	-35.323	45.952	27.767	1.00	56.49	A
ATOM	3486	CE2	TYR	A	452	-34.953	44.668	27.394	1.00	58.58	A
ATOM	3487	CZ	TYR	A	452	-35.932	43.712	27.168	1.00	59.86	A
ATOM	3488	OH	TYR	A	452	-35.574	42.441	26.783	1.00	61.89	A
ATOM	3489	C	TYR	A	452	-38.133	49.858	27.655	1.00	52.86	A
ATOM	3490	O	TYR	A	452	-37.502	50.792	28.159	1.00	52.89	A
ATOM	3491	N	SER	A	453	-39.460	49.852	27.560	1.00	53.30	A
ATOM	3492	CA	SER	A	453	-40.279	50.944	28.082	1.00	53.28	A
ATOM	3493	CB	SER	A	453	-41.445	51.241	27.147	1.00	52.60	A
ATOM	3494	OG	SER	A	453	-42.228	52.295	27.670	1.00	54.38	A
ATOM	3495	C	SER	A	453	-40.808	50.473	29.430	1.00	53.63	A
ATOM	3496	O	SER	A	453	-41.516	49.472	29.502	1.00	54.21	A
ATOM	3497	N	ILE	A	454	-40.478	51.197	30.495	1.00	53.99	A
ATOM	3498	CA	ILE	A	454	-40.882	50.787	31.834	1.00	53.53	A
ATOM	3499	CB	ILE	A	454	-39.685	50.153	32.558	1.00	52.47	A
ATOM	3500	CG2	ILE	A	454	-40.072	49.742	33.960	1.00	52.21	A
ATOM	3501	CG1	ILE	A	454	-39.173	48.970	31.740	1.00	52.26	A
ATOM	3502	CD1	ILE	A	454	-38.004	48.249	32.358	1.00	53.39	A
ATOM	3503	C	ILE	A	454	-41.446	51.876	32.736	1.00	54.31	A
ATOM	3504	O	ILE	A	454	-40.983	53.020	32.732	1.00	53.91	A
ATOM	3505	N	GLU	A	455	-42.452	51.506	33.518	1.00	54.69	A
ATOM	3506	CA	GLU	A	455	-43.040	52.443	34.458	1.00	56.32	A
ATOM	3507	CB	GLU	A	455	-44.522	52.160	34.687	1.00	59.31	A
ATOM	3508	CG	GLU	A	455	-45.435	52.370	33.507	1.00	61.94	A
ATOM	3509	CD	GLU	A	455	-46.871	52.060	33.880	1.00	65.41	A
ATOM	3510	OE1	GLU	A	455	-47.473	52.857	34.635	1.00	67.70	A
ATOM	3511	OE2	GLU	A	455	-47.391	51.010	33.438	1.00	66.51	A
ATOM	3512	C	GLU	A	455	-42.304	52.244	35.778	1.00	55.15	A
ATOM	3513	O	GLU	A	455	-42.195	51.122	36.280	1.00	54.26	A
ATOM	3514	N	PRO	A	456	-41.791	53.335	36.356	1.00	53.46	A
ATOM	3515	CD	PRO	A	456	-41.820	54.697	35.801	1.00	53.29	A
ATOM	3516	CA	PRO	A	456	-41.060	53.305	37.622	1.00	52.48	A
ATOM	3517	CB	PRO	A	456	-40.886	54.779	37.939	1.00	52.75	A
ATOM	3518	CG	PRO	A	456	-40.721	55.372	36.575	1.00	53.14	A
ATOM	3519	C	PRO	A	456	-41.820	52.569	38.712	1.00	51.65	A
ATOM	3520	O	PRO	A	456	-41.231	51.889	39.548	1.00	51.70	A
ATOM	3521	N	LEU	A	457	-43.136	52.704	38.700	1.00	51.18	A
ATOM	3522	CA	LEU	A	457	-43.953	52.046	39.701	1.00	51.02	A

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ATOM   3523  CB  LEU A 457     -45.406  52.492  39.554  1.00 52.65      A
ATOM   3524  CG  LEU A 457     -45.659  53.951  39.940  1.00 53.07      A
ATOM   3525  CD1 LEU A 457     -47.060  54.353  39.555  1.00 52.55      A
ATOM   3526  CD2 LEU A 457     -45.446  54.125  41.435  1.00 53.24      A
ATOM   3527  C   LEU A 457     -43.857  50.523  39.652  1.00 50.33      A
ATOM   3528  O   LEU A 457     -44.191  49.852  40.625  1.00 50.63      A
ATOM   3529  N   ASP A 458     -43.394  49.972  38.534  1.00 49.05      A
ATOM   3530  CA  ASP A 458     -43.271  48.521  38.424  1.00 48.16      A
ATOM   3531  CB  ASP A 458     -43.357  48.074  36.961  1.00 52.10      A
ATOM   3532  CG  ASP A 458     -44.783  48.033  36.437  1.00 54.68      A
ATOM   3533  OD1 ASP A 458     -45.664  47.484  37.140  1.00 55.49      A
ATOM   3534  OD2 ASP A 458     -45.016  48.538  35.316  1.00 57.43      A
ATOM   3535  C   ASP A 458     -41.970  47.992  39.007  1.00 45.34      A
ATOM   3536  O   ASP A 458     -41.829  46.795  39.252  1.00 45.41      A
ATOM   3537  N   LEU A 459     -41.025  48.891  39.236  1.00 43.26      A
ATOM   3538  CA  LEU A 459     -39.721  48.514  39.751  1.00 41.66      A
ATOM   3539  CB  LEU A 459     -38.968  49.756  40.215  1.00 39.91      A
ATOM   3540  CG  LEU A 459     -38.416  50.569  39.034  1.00 40.11      A
ATOM   3541  CD1 LEU A 459     -37.861  51.898  39.517  1.00 38.06      A
ATOM   3542  CD2 LEU A 459     -37.331  49.753  38.316  1.00 40.08      A
ATOM   3543  C   LEU A 459     -39.696  47.450  40.829  1.00 42.28      A
ATOM   3544  O   LEU A 459     -38.868  46.546  40.774  1.00 43.94      A
ATOM   3545  N   PRO A 460     -40.605  47.523  41.813  1.00 42.37      A
ATOM   3546  CD  PRO A 460     -41.595  48.580  42.076  1.00 42.84      A
ATOM   3547  CA  PRO A 460     -40.628  46.524  42.886  1.00 41.65      A
ATOM   3548  CB  PRO A 460     -41.772  47.004  43.773  1.00 42.17      A
ATOM   3549  CG  PRO A 460     -41.764  48.479  43.570  1.00 41.05      A
ATOM   3550  C   PRO A 460     -40.838  45.090  42.396  1.00 42.01      A
ATOM   3551  O   PRO A 460     -40.150  44.168  42.842  1.00 39.96      A
ATOM   3552  N   GLN A 461     -41.793  44.903  41.488  1.00 42.88      A
ATOM   3553  CA  GLN A 461     -42.067  43.577  40.949  1.00 45.00      A
ATOM   3554  CB  GLN A 461     -43.273  43.590  40.007  1.00 48.75      A
ATOM   3555  CG  GLN A 461     -44.596  44.017  40.620  1.00 52.27      A
ATOM   3556  CD  GLN A 461     -44.760  45.517  40.648  1.00 54.04      A
ATOM   3557  OE1 GLN A 461     -44.133  46.210  41.451  1.00 55.23      A
ATOM   3558  NE2 GLN A 461     -45.601  46.034  39.756  1.00 54.74      A
ATOM   3559  C   GLN A 461     -40.854  43.138  40.153  1.00 45.04      A
ATOM   3560  O   GLN A 461     -40.313  42.046  40.350  1.00 45.31      A
ATOM   3561  N   ILE A 462     -40.435  44.004  39.239  1.00 43.79      A
ATOM   3562  CA  ILE A 462     -39.286  43.716  38.404  1.00 42.84      A
ATOM   3563  CB  ILE A 462     -38.873  44.953  37.597  1.00 41.32      A
ATOM   3564  CG2 ILE A 462     -37.590  44.668  36.841  1.00 42.50      A
ATOM   3565  CG1 ILE A 462     -39.998  45.332  36.630  1.00 40.35      A
ATOM   3566  CD1 ILE A 462     -39.761  46.616  35.852  1.00 39.48      A
ATOM   3567  C   ILE A 462     -38.117  43.258  39.258  1.00 42.76      A
ATOM   3568  O   ILE A 462     -37.609  42.151  39.091  1.00 43.61      A
ATOM   3569  N   ILE A 463     -37.706  44.110  40.188  1.00 42.32      A
ATOM   3570  CA  ILE A 463     -36.589  43.794  41.057  1.00 42.88      A
ATOM   3571  CB  ILE A 463     -36.338  44.935  42.078  1.00 41.90      A
ATOM   3572  CG2 ILE A 463     -35.312  44.504  43.130  1.00 39.33      A
ATOM   3573  CG1 ILE A 463     -35.868  46.186  41.328  1.00 37.72      A
ATOM   3574  CD1 ILE A 463     -35.482  47.326  42.213  1.00 37.01      A
ATOM   3575  C   ILE A 463     -36.751  42.465  41.786  1.00 45.18      A
ATOM   3576  O   ILE A 463     -35.811  41.669  41.834  1.00 45.32      A
ATOM   3577  N   GLU A 464     -37.928  42.203  42.347  1.00 47.21      A
ATOM   3578  CA  GLU A 464     -38.115  40.936  43.057  1.00 48.79      A
ATOM   3579  CB  GLU A 464     -39.506  40.843  43.688  1.00 50.36      A
ATOM   3580  CG  GLU A 464     -39.865  39.414  44.094  1.00 52.24      A
ATOM   3581  CD  GLU A 464     -41.150  39.321  44.879  1.00 54.27      A
ATOM   3582  OE1 GLU A 464     -42.132  39.993  44.496  1.00 56.53      A
ATOM   3583  OE2 GLU A 464     -41.182  38.564  45.872  1.00 54.29      A
ATOM   3584  C   GLU A 464     -37.914  39.734  42.143  1.00 48.44      A
ATOM   3585  O   GLU A 464     -37.220  38.775  42.506  1.00 46.63      A
ATOM   3586  N   ARG A 465     -38.533  39.789  40.967  1.00 47.67      A
ATOM   3587  CA  ARG A 465     -38.429  38.708  39.998  1.00 48.78      A
ATOM   3588  CB  ARG A 465     -39.350  38.975  38.797  1.00 49.69      A
ATOM   3589  CG  ARG A 465     -40.818  38.598  39.019  1.00 52.31      A
ATOM   3590  CD  ARG A 465     -41.038  37.077  38.994  1.00 53.70      A
ATOM   3591  NE  ARG A 465     -40.775  36.500  37.671  1.00 54.48      A
ATOM   3592  CZ  ARG A 465     -41.486  36.762  36.573  1.00 52.91      A
ATOM   3593  NH1 ARG A 465     -42.524  37.590  36.617  1.00 51.12      A
ATOM   3594  NH2 ARG A 465     -41.140  36.212  35.418  1.00 52.35      A
ATOM   3595  C   ARG A 465     -36.996  38.478  39.507  1.00 48.80      A
ATOM   3596  O   ARG A 465     -36.567  37.334  39.357  1.00 49.38      A
ATOM   3597  N   LEU A 466     -36.249  39.553  39.274  1.00 46.99      A
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ATOM	3598	CA	LEU	A	466	-34.889	39.410	38.777	1.00	45.58	A
ATOM	3599	CB	LEU	A	466	-34.516	40.645	37.958	1.00	46.51	A
ATOM	3600	CG	LEU	A	466	-35.469	41.051	36.828	1.00	46.75	A
ATOM	3601	CD1	LEU	A	466	-34.978	42.316	36.141	1.00	42.05	A
ATOM	3602	CD2	LEU	A	466	-35.575	39.912	35.834	1.00	46.90	A
ATOM	3603	C	LEU	A	466	-33.809	39.170	39.835	1.00	45.68	A
ATOM	3604	O	LEU	A	466	-32.758	38.613	39.527	1.00	47.29	A
ATOM	3605	N	HIS	A	467	-34.058	39.574	41.076	1.00	44.45	A
ATOM	3606	CA	HIS	A	467	-33.054	39.428	42.130	1.00	42.99	A
ATOM	3607	CB	HIS	A	467	-32.601	40.808	42.606	1.00	40.37	A
ATOM	3608	CG	HIS	A	467	-32.012	41.673	41.534	1.00	38.35	A
ATOM	3609	CD2	HIS	A	467	-32.515	42.749	40.880	1.00	37.16	A
ATOM	3610	ND1	HIS	A	467	-30.729	41.507	41.062	1.00	37.59	A
ATOM	3611	CE1	HIS	A	467	-30.465	42.445	40.169	1.00	37.31	A
ATOM	3612	NE2	HIS	A	467	-31.533	43.213	40.041	1.00	35.59	A
ATOM	3613	C	HIS	A	467	-33.512	38.649	43.359	1.00	44.23	A
ATOM	3614	O	HIS	A	467	-32.704	38.011	44.030	1.00	43.63	A
ATOM	3615	N	GLY	A	468	-34.805	38.715	43.661	1.00	45.84	A
ATOM	3616	CA	GLY	A	468	-35.322	38.036	44.837	1.00	46.84	A
ATOM	3617	C	GLY	A	468	-35.628	39.089	45.885	1.00	47.58	A
ATOM	3618	O	GLY	A	468	-35.278	40.249	45.697	1.00	49.16	A
ATOM	3619	N	LEU	A	469	-36.265	38.708	46.987	1.00	47.33	A
ATOM	3620	CA	LEU	A	469	-36.605	39.681	48.024	1.00	46.83	A
ATOM	3621	CB	LEU	A	469	-37.595	39.075	49.030	1.00	45.45	A
ATOM	3622	CG	LEU	A	469	-39.045	38.910	48.562	1.00	46.44	A
ATOM	3623	CD1	LEU	A	469	-39.847	38.155	49.610	1.00	45.38	A
ATOM	3624	CD2	LEU	A	469	-39.660	40.282	48.292	1.00	45.52	A
ATOM	3625	C	LEU	A	469	-35.396	40.235	48.773	1.00	47.21	A
ATOM	3626	O	LEU	A	469	-35.476	41.308	49.372	1.00	47.70	A
ATOM	3627	N	SER	A	470	-34.279	39.514	48.739	1.00	46.37	A
ATOM	3628	CA	SER	A	470	-33.078	39.958	49.437	1.00	45.05	A
ATOM	3629	CB	SER	A	470	-31.961	38.943	49.257	1.00	46.26	A
ATOM	3630	OG	SER	A	470	-31.546	38.923	47.902	1.00	49.01	A
ATOM	3631	C	SER	A	470	-32.613	41.298	48.892	1.00	44.18	A
ATOM	3632	O	SER	A	470	-31.861	42.020	49.544	1.00	44.04	A
ATOM	3633	N	ALA	A	471	-33.055	41.628	47.685	1.00	42.37	A
ATOM	3634	CA	ALA	A	471	-32.666	42.889	47.071	1.00	41.08	A
ATOM	3635	CB	ALA	A	471	-33.145	42.937	45.637	1.00	40.63	A
ATOM	3636	C	ALA	A	471	-33.219	44.077	47.845	1.00	39.69	A
ATOM	3637	O	ALA	A	471	-32.814	45.211	47.620	1.00	40.93	A
ATOM	3638	N	PHE	A	472	-34.144	43.815	48.758	1.00	39.45	A
ATOM	3639	CA	PHE	A	472	-34.746	44.878	49.554	1.00	38.51	A
ATOM	3640	CB	PHE	A	472	-36.266	44.806	49.495	1.00	38.09	A
ATOM	3641	CG	PHE	A	472	-36.815	44.754	48.107	1.00	38.96	A
ATOM	3642	CD1	PHE	A	472	-36.577	45.793	47.210	1.00	38.58	A
ATOM	3643	CD2	PHE	A	472	-37.590	43.674	47.700	1.00	37.78	A
ATOM	3644	CE1	PHE	A	472	-37.108	45.763	45.917	1.00	40.13	A
ATOM	3645	CE2	PHE	A	472	-38.125	43.632	46.414	1.00	40.39	A
ATOM	3646	CZ	PHE	A	472	-37.884	44.681	45.518	1.00	40.44	A
ATOM	3647	C	PHE	A	472	-34.328	44.779	51.000	1.00	38.46	A
ATOM	3648	O	PHE	A	472	-34.685	45.633	51.805	1.00	39.66	A
ATOM	3649	N	THR	A	473	-33.565	43.744	51.328	1.00	37.97	A
ATOM	3650	CA	THR	A	473	-33.132	43.550	52.698	1.00	37.64	A
ATOM	3651	CB	THR	A	473	-33.832	42.328	53.325	1.00	38.61	A
ATOM	3652	OG1	THR	A	473	-33.263	41.123	52.798	1.00	39.88	A
ATOM	3653	CG2	THR	A	473	-35.321	42.354	52.997	1.00	36.67	A
ATOM	3654	C	THR	A	473	-31.630	43.373	52.851	1.00	36.96	A
ATOM	3655	O	THR	A	473	-31.141	43.174	53.962	1.00	38.63	A
ATOM	3656	N	LEU	A	474	-30.893	43.435	51.749	1.00	36.25	A
ATOM	3657	CA	LEU	A	474	-29.445	43.282	51.835	1.00	35.10	A
ATOM	3658	CB	LEU	A	474	-28.801	43.415	50.453	1.00	32.34	A
ATOM	3659	CG	LEU	A	474	-28.134	42.163	49.857	1.00	32.36	A
ATOM	3660	CD1	LEU	A	474	-28.998	40.908	50.040	1.00	28.95	A
ATOM	3661	CD2	LEU	A	474	-27.869	42.419	48.371	1.00	30.31	A
ATOM	3662	C	LEU	A	474	-28.932	44.358	52.784	1.00	35.54	A
ATOM	3663	O	LEU	A	474	-29.499	45.452	52.871	1.00	35.19	A
ATOM	3664	N	HIS	A	475	-27.882	44.024	53.524	1.00	35.86	A
ATOM	3665	CA	HIS	A	475	-27.300	44.938	54.488	1.00	36.74	A
ATOM	3666	CB	HIS	A	475	-28.224	45.084	55.713	1.00	37.44	A
ATOM	3667	CG	HIS	A	475	-28.208	43.905	56.643	1.00	42.87	A
ATOM	3668	CD2	HIS	A	475	-29.065	42.864	56.779	1.00	43.06	A
ATOM	3669	ND1	HIS	A	475	-27.213	43.706	57.582	1.00	43.41	A
ATOM	3670	CE1	HIS	A	475	-27.459	42.595	58.254	1.00	43.29	A
ATOM	3671	NE2	HIS	A	475	-28.576	42.064	57.787	1.00	44.80	A
ATOM	3672	C	HIS	A	475	-25.940	44.417	54.920	1.00	36.33	A

ATOM	3673	O	HIS	A	475	-25.560	43.289	54.595	1.00	35.06	A
ATOM	3674	N	SER	A	476	-25.213	45.245	55.658	1.00	36.68	A
ATOM	3675	CA	SER	A	476	-23.902	44.858	56.135	1.00	38.00	A
ATOM	3676	CB	SER	A	476	-24.026	43.640	57.057	1.00	39.87	A
ATOM	3677	OG	SER	A	476	-22.795	43.350	57.698	1.00	44.01	A
ATOM	3678	C	SER	A	476	-23.042	44.526	54.923	1.00	37.34	A
ATOM	3679	O	SER	A	476	-22.628	43.384	54.729	1.00	38.74	A
ATOM	3680	N	TYR	A	477	-22.789	45.536	54.101	1.00	36.57	A
ATOM	3681	CA	TYR	A	477	-21.982	45.357	52.903	1.00	35.28	A
ATOM	3682	CB	TYR	A	477	-22.209	46.524	51.930	1.00	31.72	A
ATOM	3683	CG	TYR	A	477	-23.603	46.582	51.336	1.00	29.29	A
ATOM	3684	CD1	TYR	A	477	-24.682	47.071	52.069	1.00	27.36	A
ATOM	3685	CE1	TYR	A	477	-25.967	47.139	51.511	1.00	27.88	A
ATOM	3686	CD2	TYR	A	477	-23.839	46.154	50.031	1.00	29.87	A
ATOM	3687	CE2	TYR	A	477	-25.117	46.213	49.459	1.00	29.64	A
ATOM	3688	CZ	TYR	A	477	-26.178	46.710	50.202	1.00	30.33	A
ATOM	3689	OH	TYR	A	477	-27.434	46.796	49.623	1.00	29.53	A
ATOM	3690	C	TYR	A	477	-20.504	45.250	53.265	1.00	35.07	A
ATOM	3691	O	TYR	A	477	-20.086	45.708	54.320	1.00	35.36	A
ATOM	3692	N	SER	A	478	-19.719	44.633	52.393	1.00	36.42	A
ATOM	3693	CA	SER	A	478	-18.296	44.486	52.647	1.00	37.63	A
ATOM	3694	CB	SER	A	478	-17.635	43.673	51.532	1.00	37.47	A
ATOM	3695	OG	SER	A	478	-17.796	44.299	50.275	1.00	37.09	A
ATOM	3696	C	SER	A	478	-17.678	45.873	52.730	1.00	38.95	A
ATOM	3697	O	SER	A	478	-18.164	46.812	52.111	1.00	40.04	A
ATOM	3698	N	PRO	A	479	-16.592	46.020	53.499	1.00	40.13	A
ATOM	3699	CD	PRO	A	479	-15.928	44.975	54.294	1.00	39.81	A
ATOM	3700	CA	PRO	A	479	-15.915	47.311	53.662	1.00	39.50	A
ATOM	3701	CB	PRO	A	479	-14.812	47.005	54.670	1.00	39.75	A
ATOM	3702	CG	PRO	A	479	-15.334	45.784	55.410	1.00	40.68	A
ATOM	3703	C	PRO	A	479	-15.349	47.850	52.360	1.00	40.06	A
ATOM	3704	O	PRO	A	479	-15.387	49.046	52.111	1.00	43.15	A
ATOM	3705	N	GLY	A	480	-14.809	46.967	51.533	1.00	40.14	A
ATOM	3706	CA	GLY	A	480	-14.247	47.411	50.271	1.00	38.83	A
ATOM	3707	C	GLY	A	480	-15.285	48.060	49.372	1.00	38.56	A
ATOM	3708	O	GLY	A	480	-15.002	49.046	48.689	1.00	39.16	A
ATOM	3709	N	GLU	A	481	-16.493	47.509	49.375	1.00	36.50	A
ATOM	3710	CA	GLU	A	481	-17.568	48.035	48.552	1.00	34.99	A
ATOM	3711	CB	GLU	A	481	-18.732	47.028	48.523	1.00	32.01	A
ATOM	3712	CG	GLU	A	481	-19.983	47.454	47.754	1.00	29.62	A
ATOM	3713	CD	GLU	A	481	-19.706	47.885	46.326	1.00	28.70	A
ATOM	3714	OE1	GLU	A	481	-18.594	47.649	45.820	1.00	29.00	A
ATOM	3715	OE2	GLU	A	481	-20.614	48.460	45.699	1.00	27.44	A
ATOM	3716	C	GLU	A	481	-18.000	49.382	49.118	1.00	35.62	A
ATOM	3717	O	GLU	A	481	-18.170	50.344	48.375	1.00	36.25	A
ATOM	3718	N	ILE	A	482	-18.151	49.454	50.437	1.00	36.47	A
ATOM	3719	CA	ILE	A	482	-18.552	50.698	51.095	1.00	37.97	A
ATOM	3720	CB	ILE	A	482	-18.684	50.521	52.633	1.00	37.02	A
ATOM	3721	CG2	ILE	A	482	-18.933	51.874	53.299	1.00	35.11	A
ATOM	3722	CG1	ILE	A	482	-19.830	49.559	52.952	1.00	35.52	A
ATOM	3723	CD1	ILE	A	482	-19.989	49.272	54.436	1.00	31.78	A
ATOM	3724	C	ILE	A	482	-17.531	51.804	50.835	1.00	39.39	A
ATOM	3725	O	ILE	A	482	-17.890	52.922	50.468	1.00	39.52	A
ATOM	3726	N	ASN	A	483	-16.258	51.484	51.026	1.00	40.21	A
ATOM	3727	CA	ASN	A	483	-15.198	52.455	50.818	1.00	42.65	A
ATOM	3728	CB	ASN	A	483	-13.850	51.859	51.229	1.00	45.70	A
ATOM	3729	CG	ASN	A	483	-13.750	51.641	52.732	1.00	49.79	A
ATOM	3730	OD1	ASN	A	483	-14.559	50.927	53.326	1.00	51.69	A
ATOM	3731	ND2	ASN	A	483	-12.758	52.265	53.354	1.00	52.92	A
ATOM	3732	C	ASN	A	483	-15.146	52.951	49.380	1.00	42.27	A
ATOM	3733	O	ASN	A	483	-14.979	54.151	49.142	1.00	43.98	A
ATOM	3734	N	ARG	A	484	-15.291	52.045	48.419	1.00	39.79	A
ATOM	3735	CA	ARG	A	484	-15.269	52.465	47.028	1.00	37.36	A
ATOM	3736	CB	ARG	A	484	-15.403	51.275	46.081	1.00	37.96	A
ATOM	3737	CG	ARG	A	484	-15.555	51.707	44.624	1.00	38.16	A
ATOM	3738	CD	ARG	A	484	-15.302	50.568	43.655	1.00	36.70	A
ATOM	3739	NE	ARG	A	484	-16.427	49.650	43.572	1.00	34.99	A
ATOM	3740	CZ	ARG	A	484	-16.366	48.476	42.964	1.00	32.78	A
ATOM	3741	NH1	ARG	A	484	-15.233	48.092	42.398	1.00	31.80	A
ATOM	3742	NH2	ARG	A	484	-17.432	47.694	42.919	1.00	31.90	A
ATOM	3743	C	ARG	A	484	-16.413	53.426	46.786	1.00	36.24	A
ATOM	3744	O	ARG	A	484	-16.247	54.440	46.115	1.00	36.88	A
ATOM	3745	N	VAL	A	485	-17.580	53.108	47.333	1.00	34.84	A
ATOM	3746	CA	VAL	A	485	-18.732	53.977	47.158	1.00	34.25	A
ATOM	3747	CB	VAL	A	485	-20.005	53.366	47.756	1.00	32.46	A

ATOM	3748	CG1	VAL	A	485	-21.141	54.375	47.676	1.00	30.90	A
ATOM	3749	CG2	VAL	A	485	-20.374	52.115	47.007	1.00	31.06	A
ATOM	3750	C	VAL	A	485	-18.515	55.347	47.794	1.00	34.90	A
ATOM	3751	O	VAL	A	485	-18.700	56.374	47.143	1.00	35.75	A
ATOM	3752	N	ALA	A	486	-18.127	55.353	49.068	1.00	35.02	A
ATOM	3753	CA	ALA	A	486	-17.891	56.593	49.807	1.00	34.39	A
ATOM	3754	CB	ALA	A	486	-17.435	56.275	51.219	1.00	32.27	A
ATOM	3755	C	ALA	A	486	-16.839	57.435	49.109	1.00	34.32	A
ATOM	3756	O	ALA	A	486	-17.002	58.639	48.928	1.00	34.16	A
ATOM	3757	N	SER	A	487	-15.749	56.781	48.735	1.00	34.20	A
ATOM	3758	CA	SER	A	487	-14.653	57.435	48.051	1.00	33.71	A
ATOM	3759	CB	SER	A	487	-13.605	56.392	47.679	1.00	34.60	A
ATOM	3760	OG	SER	A	487	-12.607	56.958	46.860	1.00	40.58	A
ATOM	3761	C	SER	A	487	-15.180	58.124	46.801	1.00	33.41	A
ATOM	3762	O	SER	A	487	-14.934	59.310	46.564	1.00	32.46	A
ATOM	3763	N	CYS	A	488	-15.927	57.367	46.010	1.00	32.28	A
ATOM	3764	CA	CYS	A	488	-16.496	57.878	44.781	1.00	33.26	A
ATOM	3765	CB	CYS	A	488	-17.380	56.811	44.159	1.00	34.06	A
ATOM	3766	SG	CYS	A	488	-18.160	57.345	42.646	1.00	39.11	A
ATOM	3767	C	CYS	A	488	-17.297	59.170	44.978	1.00	33.76	A
ATOM	3768	O	CYS	A	488	-17.026	60.183	44.326	1.00	33.47	A
ATOM	3769	N	LEU	A	489	-18.282	59.129	45.872	1.00	34.05	A
ATOM	3770	CA	LEU	A	489	-19.120	60.293	46.157	1.00	33.82	A
ATOM	3771	CB	LEU	A	489	-20.071	59.994	47.318	1.00	33.67	A
ATOM	3772	CG	LEU	A	489	-20.843	58.675	47.283	1.00	36.05	A
ATOM	3773	CD1	LEU	A	489	-21.973	58.726	48.319	1.00	35.54	A
ATOM	3774	CD2	LEU	A	489	-21.410	58.438	45.895	1.00	36.80	A
ATOM	3775	C	LEU	A	489	-18.290	61.536	46.493	1.00	33.53	A
ATOM	3776	O	LEU	A	489	-18.575	62.638	46.007	1.00	31.45	A
ATOM	3777	N	ARG	A	490	-17.272	61.367	47.331	1.00	33.04	A
ATOM	3778	CA	ARG	A	490	-16.434	62.495	47.689	1.00	33.67	A
ATOM	3779	CB	ARG	A	490	-15.303	62.053	48.616	1.00	34.78	A
ATOM	3780	CG	ARG	A	490	-15.779	61.619	50.008	1.00	37.97	A
ATOM	3781	CD	ARG	A	490	-14.631	61.594	51.016	1.00	37.55	A
ATOM	3782	NE	ARG	A	490	-13.817	60.382	50.940	1.00	40.66	A
ATOM	3783	CZ	ARG	A	490	-14.167	59.217	51.483	1.00	41.81	A
ATOM	3784	NH1	ARG	A	490	-15.322	59.121	52.137	1.00	44.49	A
ATOM	3785	NH2	ARG	A	490	-13.362	58.160	51.396	1.00	37.96	A
ATOM	3786	C	ARG	A	490	-15.873	63.091	46.406	1.00	34.50	A
ATOM	3787	O	ARG	A	490	-15.986	64.292	46.171	1.00	36.73	A
ATOM	3788	N	LYS	A	491	-15.305	62.232	45.565	1.00	34.79	A
ATOM	3789	CA	LYS	A	491	-14.715	62.632	44.288	1.00	32.97	A
ATOM	3790	CB	LYS	A	491	-14.213	61.388	43.539	1.00	31.34	A
ATOM	3791	CG	LYS	A	491	-13.713	61.667	42.135	1.00	31.91	A
ATOM	3792	CD	LYS	A	491	-13.175	60.425	41.438	1.00	32.44	A
ATOM	3793	CE	LYS	A	491	-14.283	59.491	40.963	1.00	36.79	A
ATOM	3794	NZ	LYS	A	491	-13.764	58.360	40.118	1.00	36.86	A
ATOM	3795	C	LYS	A	491	-15.676	63.417	43.390	1.00	32.85	A
ATOM	3796	O	LYS	A	491	-15.341	64.490	42.893	1.00	33.47	A
ATOM	3797	N	LEU	A	492	-16.870	62.875	43.189	1.00	31.81	A
ATOM	3798	CA	LEU	A	492	-17.870	63.508	42.334	1.00	30.65	A
ATOM	3799	CB	LEU	A	492	-18.949	62.480	41.953	1.00	29.47	A
ATOM	3800	CG	LEU	A	492	-18.901	61.665	40.656	1.00	26.73	A
ATOM	3801	CD1	LEU	A	492	-17.543	61.720	40.001	1.00	24.46	A
ATOM	3802	CD2	LEU	A	492	-19.295	60.245	40.985	1.00	24.62	A
ATOM	3803	C	LEU	A	492	-18.556	64.728	42.945	1.00	30.46	A
ATOM	3804	O	LEU	A	492	-19.126	65.544	42.220	1.00	30.60	A
ATOM	3805	N	GLY	A	493	-18.515	64.852	44.269	1.00	30.34	A
ATOM	3806	CA	GLY	A	493	-19.190	65.969	44.912	1.00	31.69	A
ATOM	3807	C	GLY	A	493	-20.649	65.628	45.218	1.00	33.01	A
ATOM	3808	O	GLY	A	493	-21.525	66.500	45.263	1.00	32.22	A
ATOM	3809	N	VAL	A	494	-20.903	64.339	45.428	1.00	32.53	A
ATOM	3810	CA	VAL	A	494	-22.230	63.823	45.739	1.00	30.97	A
ATOM	3811	CB	VAL	A	494	-22.392	62.418	45.103	1.00	33.24	A
ATOM	3812	CG1	VAL	A	494	-23.760	61.828	45.428	1.00	34.95	A
ATOM	3813	CG2	VAL	A	494	-22.174	62.511	43.599	1.00	30.39	A
ATOM	3814	C	VAL	A	494	-22.360	63.724	47.270	1.00	32.97	A
ATOM	3815	O	VAL	A	494	-21.462	63.210	47.947	1.00	34.00	A
ATOM	3816	N	PRO	A	495	-23.469	64.224	47.840	1.00	33.28	A
ATOM	3817	CD	PRO	A	495	-24.621	64.877	47.192	1.00	32.18	A
ATOM	3818	CA	PRO	A	495	-23.653	64.161	49.297	1.00	30.09	A
ATOM	3819	CB	PRO	A	495	-25.108	64.571	49.472	1.00	31.80	A
ATOM	3820	CG	PRO	A	495	-25.297	65.564	48.357	1.00	32.54	A
ATOM	3821	C	PRO	A	495	-23.363	62.770	49.868	1.00	30.51	A
ATOM	3822	O	PRO	A	495	-23.662	61.761	49.233	1.00	30.87	A

ATOM	3823	N	PRO	A	496	-22.770	62.698	51.073	1.00	31.61	A
ATOM	3824	CD	PRO	A	496	-22.446	63.801	51.993	1.00	28.53	A
ATOM	3825	CA	PRO	A	496	-22.454	61.402	51.692	1.00	28.34	A
ATOM	3826	CB	PRO	A	496	-21.793	61.799	53.016	1.00	28.46	A
ATOM	3827	CG	PRO	A	496	-22.453	63.100	53.342	1.00	28.55	A
ATOM	3828	C	PRO	A	496	-23.695	60.549	51.895	1.00	28.59	A
ATOM	3829	O	PRO	A	496	-24.819	61.051	51.803	1.00	29.15	A
ATOM	3830	N	LEU	A	497	-23.492	59.268	52.181	1.00	27.99	A
ATOM	3831	CA	LEU	A	497	-24.610	58.361	52.376	1.00	28.81	A
ATOM	3832	CB	LEU	A	497	-24.100	56.939	52.597	1.00	29.39	A
ATOM	3833	CG	LEU	A	497	-23.482	56.316	51.342	1.00	32.23	A
ATOM	3834	CD1	LEU	A	497	-22.804	54.996	51.688	1.00	30.08	A
ATOM	3835	CD2	LEU	A	497	-24.572	56.135	50.276	1.00	28.86	A
ATOM	3836	C	LEU	A	497	-25.576	58.751	53.491	1.00	30.02	A
ATOM	3837	O	LEU	A	497	-26.768	58.499	53.380	1.00	31.61	A
ATOM	3838	N	ARG	A	498	-25.088	59.360	54.565	1.00	31.87	A
ATOM	3839	CA	ARG	A	498	-25.997	59.768	55.629	1.00	32.94	A
ATOM	3840	CB	ARG	A	498	-25.239	60.432	56.791	1.00	33.09	A
ATOM	3841	CG	ARG	A	498	-24.290	61.554	56.413	1.00	33.28	A
ATOM	3842	CD	ARG	A	498	-23.483	62.041	57.628	1.00	33.03	A
ATOM	3843	NE	ARG	A	498	-22.568	63.116	57.259	1.00	34.74	A
ATOM	3844	CZ	ARG	A	498	-22.967	64.307	56.819	1.00	37.63	A
ATOM	3845	NH1	ARG	A	498	-24.265	64.573	56.708	1.00	38.49	A
ATOM	3846	NH2	ARG	A	498	-22.075	65.222	56.456	1.00	37.30	A
ATOM	3847	C	ARG	A	498	-27.063	60.714	55.073	1.00	34.05	A
ATOM	3848	O	ARG	A	498	-28.242	60.613	55.434	1.00	36.07	A
ATOM	3849	N	THR	A	499	-26.663	61.615	54.179	1.00	32.85	A
ATOM	3850	CA	THR	A	499	-27.614	62.544	53.587	1.00	32.34	A
ATOM	3851	CB	THR	A	499	-26.922	63.579	52.683	1.00	33.03	A
ATOM	3852	OG1	THR	A	499	-26.140	64.473	53.489	1.00	31.07	A
ATOM	3853	CG2	THR	A	499	-27.967	64.382	51.892	1.00	29.72	A
ATOM	3854	C	THR	A	499	-28.651	61.806	52.756	1.00	33.89	A
ATOM	3855	O	THR	A	499	-29.815	62.212	52.707	1.00	35.60	A
ATOM	3856	N	TRP	A	500	-28.234	60.729	52.095	1.00	33.98	A
ATOM	3857	CA	TRP	A	500	-29.163	59.958	51.279	1.00	34.35	A
ATOM	3858	CB	TRP	A	500	-28.401	58.989	50.368	1.00	31.83	A
ATOM	3859	CG	TRP	A	500	-27.689	59.718	49.272	1.00	31.43	A
ATOM	3860	CD2	TRP	A	500	-28.292	60.443	48.192	1.00	30.87	A
ATOM	3861	CE2	TRP	A	500	-27.251	61.082	47.484	1.00	32.31	A
ATOM	3862	CE3	TRP	A	500	-29.609	60.612	47.753	1.00	29.44	A
ATOM	3863	CD1	TRP	A	500	-26.347	59.934	49.171	1.00	32.13	A
ATOM	3864	NE1	TRP	A	500	-26.075	60.756	48.103	1.00	33.02	A
ATOM	3865	CZ2	TRP	A	500	-27.487	61.886	46.368	1.00	31.91	A
ATOM	3866	CZ3	TRP	A	500	-29.843	61.404	46.646	1.00	29.68	A
ATOM	3867	CH2	TRP	A	500	-28.786	62.033	45.964	1.00	30.43	A
ATOM	3868	C	TRP	A	500	-30.175	59.219	52.150	1.00	36.00	A
ATOM	3869	O	TRP	A	500	-31.354	59.122	51.800	1.00	37.29	A
ATOM	3870	N	ARG	A	501	-29.720	58.717	53.293	1.00	36.66	A
ATOM	3871	CA	ARG	A	501	-30.603	58.018	54.216	1.00	37.52	A
ATOM	3872	CB	ARG	A	501	-29.812	57.561	55.446	1.00	37.88	A
ATOM	3873	CG	ARG	A	501	-30.550	56.616	56.390	1.00	40.47	A
ATOM	3874	CD	ARG	A	501	-29.575	55.984	57.392	1.00	44.58	A
ATOM	3875	NE	ARG	A	501	-28.804	56.998	58.125	1.00	51.43	A
ATOM	3876	CZ	ARG	A	501	-27.470	57.023	58.233	1.00	52.74	A
ATOM	3877	NH1	ARG	A	501	-26.719	56.086	57.660	1.00	53.03	A
ATOM	3878	NH2	ARG	A	501	-26.875	58.005	58.900	1.00	53.61	A
ATOM	3879	C	ARG	A	501	-31.702	58.999	54.619	1.00	37.48	A
ATOM	3880	O	ARG	A	501	-32.882	58.673	54.580	1.00	35.95	A
ATOM	3881	N	HIS	A	502	-31.305	60.213	54.983	1.00	38.23	A
ATOM	3882	CA	HIS	A	502	-32.267	61.231	55.387	1.00	40.10	A
ATOM	3883	CB	HIS	A	502	-31.540	62.531	55.749	1.00	43.20	A
ATOM	3884	CG	HIS	A	502	-30.607	62.400	56.913	1.00	46.56	A
ATOM	3885	CD2	HIS	A	502	-30.364	61.363	57.754	1.00	48.03	A
ATOM	3886	ND1	HIS	A	502	-29.789	63.429	57.329	1.00	47.23	A
ATOM	3887	CE1	HIS	A	502	-29.082	63.033	58.375	1.00	49.73	A
ATOM	3888	NE2	HIS	A	502	-29.412	61.783	58.654	1.00	48.47	A
ATOM	3889	C	HIS	A	502	-33.296	61.501	54.286	1.00	39.88	A
ATOM	3890	O	HIS	A	502	-34.508	61.471	54.530	1.00	39.55	A
ATOM	3891	N	ARG	A	503	-32.815	61.759	53.073	1.00	38.46	A
ATOM	3892	CA	ARG	A	503	-33.709	62.029	51.959	1.00	37.43	A
ATOM	3893	CB	ARG	A	503	-32.902	62.316	50.700	1.00	36.69	A
ATOM	3894	CG	ARG	A	503	-32.146	63.618	50.762	1.00	37.81	A
ATOM	3895	CD	ARG	A	503	-31.399	63.864	49.476	1.00	39.04	A
ATOM	3896	NE	ARG	A	503	-30.593	65.081	49.509	1.00	39.52	A
ATOM	3897	CZ	ARG	A	503	-29.722	65.405	48.557	1.00	39.50	A

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ATOM   3898  NH1 ARG A 503     -29.562  64.597  47.520  1.00 40.48      A
ATOM   3899  NH2 ARG A 503     -29.005  66.521  48.639  1.00 37.33      A
ATOM   3900  C   ARG A 503     -34.682  60.885  51.694  1.00 37.30      A
ATOM   3901  O   ARG A 503     -35.866  61.117  51.451  1.00 34.95      A
ATOM   3902  N   ALA A 504     -34.183  59.653  51.744  1.00 38.12      A
ATOM   3903  CA  ALA A 504     -35.017  58.475  51.500  1.00 39.49      A
ATOM   3904  CB  ALA A 504     -34.170  57.219  51.560  1.00 37.16      A
ATOM   3905  C   ALA A 504     -36.166  58.390  52.510  1.00 42.06      A
ATOM   3906  O   ALA A 504     -37.301  58.040  52.158  1.00 41.54      A
ATOM   3907  N   ARG A 505     -35.872  58.707  53.768  1.00 43.47      A
ATOM   3908  CA  ARG A 505     -36.892  58.680  54.805  1.00 44.38      A
ATOM   3909  CB  ARG A 505     -36.313  59.195  56.122  1.00 45.57      A
ATOM   3910  CG  ARG A 505     -35.791  58.109  57.041  1.00 48.03      A
ATOM   3911  CD  ARG A 505     -35.404  58.681  58.394  1.00 51.74      A
ATOM   3912  NE  ARG A 505     -35.208  57.639  59.402  1.00 55.83      A
ATOM   3913  CZ  ARG A 505     -36.194  56.952  59.970  1.00 57.36      A
ATOM   3914  NH1 ARG A 505     -37.455  57.198  59.631  1.00 57.30      A
ATOM   3915  NH2 ARG A 505     -35.922  56.018  60.877  1.00 59.70      A
ATOM   3916  C   ARG A 505     -38.088  59.539  54.384  1.00 45.11      A
ATOM   3917  O   ARG A 505     -39.248  59.176  54.608  1.00 43.97      A
ATOM   3918  N   SER A 506     -37.793  60.677  53.762  1.00 45.69      A
ATOM   3919  CA  SER A 506     -38.830  61.593  53.309  1.00 46.90      A
ATOM   3920  CB  SER A 506     -38.213  62.948  52.959  1.00 47.42      A
ATOM   3921  OG  SER A 506     -39.161  63.793  52.336  1.00 48.54      A
ATOM   3922  C   SER A 506     -39.562  61.030  52.098  1.00 47.72      A
ATOM   3923  O   SER A 506     -40.793  60.983  52.074  1.00 49.52      A
ATOM   3924  N   VAL A 507     -38.798  60.608  51.095  1.00 47.05      A
ATOM   3925  CA  VAL A 507     -39.366  60.039  49.881  1.00 45.64      A
ATOM   3926  CB  VAL A 507     -38.267  59.474  48.973  1.00 44.24      A
ATOM   3927  CG1 VAL A 507     -38.882  58.835  47.762  1.00 45.38      A
ATOM   3928  CG2 VAL A 507     -37.328  60.575  48.559  1.00 45.60      A
ATOM   3929  C   VAL A 507     -40.333  58.912  50.230  1.00 45.91      A
ATOM   3930  O   VAL A 507     -41.488  58.911  49.803  1.00 46.36      A
ATOM   3931  N   ARG A 508     -39.849  57.951  51.008  1.00 45.77      A
ATOM   3932  CA  ARG A 508     -40.664  56.815  51.419  1.00 46.33      A
ATOM   3933  CB  ARG A 508     -39.904  55.976  52.444  1.00 45.78      A
ATOM   3934  CG  ARG A 508     -40.744  54.933  53.126  1.00 44.53      A
ATOM   3935  CD  ARG A 508     -39.915  54.203  54.140  1.00 45.45      A
ATOM   3936  NE  ARG A 508     -40.744  53.673  55.213  1.00 49.36      A
ATOM   3937  CZ  ARG A 508     -41.058  52.392  55.357  1.00 50.83      A
ATOM   3938  NH1 ARG A 508     -40.615  51.482  54.494  1.00 50.75      A
ATOM   3939  NH2 ARG A 508     -41.813  52.023  56.378  1.00 51.72      A
ATOM   3940  C   ARG A 508     -41.971  57.297  52.021  1.00 45.72      A
ATOM   3941  O   ARG A 508     -43.054  56.912  51.585  1.00 46.43      A
ATOM   3942  N   ALA A 509     -41.852  58.144  53.032  1.00 45.08      A
ATOM   3943  CA  ALA A 509     -43.010  58.700  53.701  1.00 44.38      A
ATOM   3944  CB  ALA A 509     -42.578  59.844  54.587  1.00 43.97      A
ATOM   3945  C   ALA A 509     -44.038  59.179  52.676  1.00 44.30      A
ATOM   3946  O   ALA A 509     -45.193  58.775  52.722  1.00 43.61      A
ATOM   3947  N   LYS A 510     -43.623  60.034  51.746  1.00 44.79      A
ATOM   3948  CA  LYS A 510     -44.548  60.531  50.732  1.00 46.05      A
ATOM   3949  CB  LYS A 510     -43.860  61.535  49.810  1.00 45.05      A
ATOM   3950  CG  LYS A 510     -43.184  62.693  50.504  1.00 44.98      A
ATOM   3951  CD  LYS A 510     -43.016  63.854  49.533  1.00 47.16      A
ATOM   3952  CE  LYS A 510     -42.238  65.008  50.138  1.00 46.52      A
ATOM   3953  NZ  LYS A 510     -40.813  64.630  50.334  1.00 50.09      A
ATOM   3954  C   LYS A 510     -45.126  59.395  49.883  1.00 48.42      A
ATOM   3955  O   LYS A 510     -46.325  59.366  49.625  1.00 50.02      A
ATOM   3956  N   LEU A 511     -44.276  58.470  49.442  1.00 49.11      A
ATOM   3957  CA  LEU A 511     -44.738  57.349  48.632  1.00 50.06      A
ATOM   3958  CB  LEU A 511     -43.585  56.398  48.310  1.00 48.99      A
ATOM   3959  CG  LEU A 511     -42.525  56.884  47.323  1.00 48.38      A
ATOM   3960  CD1 LEU A 511     -41.529  55.757  47.096  1.00 46.67      A
ATOM   3961  CD2 LEU A 511     -43.173  57.308  46.000  1.00 45.24      A
ATOM   3962  C   LEU A 511     -45.839  56.570  49.337  1.00 51.65      A
ATOM   3963  O   LEU A 511     -46.896  56.319  48.761  1.00 52.71      A
ATOM   3964  N   LEU A 512     -45.586  56.181  50.581  1.00 52.82      A
ATOM   3965  CA  LEU A 512     -46.572  55.436  51.350  1.00 54.35      A
ATOM   3966  CB  LEU A 512     -46.052  55.179  52.764  1.00 52.52      A
ATOM   3967  CG  LEU A 512     -44.878  54.201  52.831  1.00 54.10      A
ATOM   3968  CD1 LEU A 512     -44.256  54.216  54.220  1.00 54.52      A
ATOM   3969  CD2 LEU A 512     -45.362  52.800  52.476  1.00 54.13      A
ATOM   3970  C   LEU A 512     -47.905  56.181  51.410  1.00 56.15      A
ATOM   3971  O   LEU A 512     -48.963  55.579  51.246  1.00 56.94      A
ATOM   3972  N   SER A 513     -47.847  57.490  51.635  1.00 57.60      A
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ATOM   3973  CA  SER A 513     -49.048  58.320  51.718  1.00 58.88      A
ATOM   3974  CB  SER A 513     -48.681  59.803  51.744  1.00 60.33      A
ATOM   3975  OG  SER A 513     -47.864  60.111  52.859  1.00 66.44      A
ATOM   3976  C   SER A 513     -49.963  58.094  50.539  1.00 58.92      A
ATOM   3977  O   SER A 513     -51.181  58.077  50.683  1.00 60.24      A
ATOM   3978  N   GLN A 514     -49.364  57.925  49.368  1.00 58.72      A
ATOM   3979  CA  GLN A 514     -50.115  57.732  48.136  1.00 57.64      A
ATOM   3980  CB  GLN A 514     -49.191  57.953  46.939  1.00 58.06      A
ATOM   3981  CG  GLN A 514     -48.656  59.365  46.857  1.00 58.98      A
ATOM   3982  CD  GLN A 514     -48.026  59.667  45.520  1.00 60.05      A
ATOM   3983  OE1 GLN A 514     -48.343  59.035  44.510  1.00 61.23      A
ATOM   3984  NE2 GLN A 514     -47.145  60.652  45.497  1.00 60.87      A
ATOM   3985  C   GLN A 514     -50.814  56.390  47.994  1.00 56.33      A
ATOM   3986  O   GLN A 514     -51.715  56.250  47.174  1.00 54.91      A
ATOM   3987  N   GLY A 515     -50.400  55.408  48.789  1.00 56.43      A
ATOM   3988  CA  GLY A 515     -51.000  54.091  48.696  1.00 57.67      A
ATOM   3989  C   GLY A 515     -50.846  53.513  47.297  1.00 59.20      A
ATOM   3990  O   GLY A 515     -50.295  54.153  46.404  1.00 60.10      A
ATOM   3991  N   GLY A 516     -51.331  52.295  47.098  1.00 60.42      A
ATOM   3992  CA  GLY A 516     -51.237  51.676  45.790  1.00 60.84      A
ATOM   3993  C   GLY A 516     -49.831  51.238  45.444  1.00 61.73      A
ATOM   3994  O   GLY A 516     -49.056  50.863  46.326  1.00 61.94      A
ATOM   3995  N   ARG A 517     -49.496  51.289  44.156  1.00 61.60      A
ATOM   3996  CA  ARG A 517     -48.173  50.882  43.705  1.00 60.86      A
ATOM   3997  CB  ARG A 517     -48.064  51.008  42.183  1.00 60.47      A
ATOM   3998  CG  ARG A 517     -49.028  50.102  41.434  1.00 58.96      A
ATOM   3999  CD  ARG A 517     -48.457  49.642  40.104  1.00 58.68      A
ATOM   4000  NE  ARG A 517     -48.454  50.670  39.064  1.00 57.26      A
ATOM   4001  CZ  ARG A 517     -47.924  50.483  37.858  1.00 56.80      A
ATOM   4002  NH1 ARG A 517     -47.365  49.319  37.570  1.00 55.99      A
ATOM   4003  NH2 ARG A 517     -47.958  51.441  36.937  1.00 55.86      A
ATOM   4004  C   ARG A 517     -47.102  51.726  44.378  1.00 60.90      A
ATOM   4005  O   ARG A 517     -46.083  51.202  44.844  1.00 60.96      A
ATOM   4006  N   ALA A 518     -47.344  53.032  44.431  1.00 59.54      A
ATOM   4007  CA  ALA A 518     -46.407  53.951  45.053  1.00 58.33      A
ATOM   4008  CB  ALA A 518     -46.982  55.352  45.058  1.00 58.58      A
ATOM   4009  C   ALA A 518     -46.108  53.503  46.478  1.00 58.14      A
ATOM   4010  O   ALA A 518     -44.951  53.436  46.889  1.00 58.16      A
ATOM   4011  N   ALA A 519     -47.153  53.192  47.235  1.00 57.07      A
ATOM   4012  CA  ALA A 519     -46.961  52.761  48.615  1.00 56.73      A
ATOM   4013  CB  ALA A 519     -48.312  52.492  49.274  1.00 57.17      A
ATOM   4014  C   ALA A 519     -46.083  51.509  48.685  1.00 55.17      A
ATOM   4015  O   ALA A 519     -45.378  51.280  49.670  1.00 54.91      A
ATOM   4016  N   THR A 520     -46.130  50.701  47.634  1.00 53.12      A
ATOM   4017  CA  THR A 520     -45.338  49.483  47.597  1.00 51.50      A
ATOM   4018  CB  THR A 520     -45.804  48.565  46.466  1.00 52.98      A
ATOM   4019  OG1 THR A 520     -47.236  48.535  46.446  1.00 53.54      A
ATOM   4020  CG2 THR A 520     -45.280  47.152  46.675  1.00 52.60      A
ATOM   4021  C   THR A 520     -43.884  49.857  47.368  1.00 50.10      A
ATOM   4022  O   THR A 520     -42.988  49.315  48.012  1.00 48.67      A
ATOM   4023  N   CYS A 521     -43.659  50.791  46.444  1.00 48.81      A
ATOM   4024  CA  CYS A 521     -42.310  51.252  46.131  1.00 47.18      A
ATOM   4025  CB  CYS A 521     -42.344  52.411  45.127  1.00 46.87      A
ATOM   4026  SG  CYS A 521     -42.611  51.921  43.412  1.00 46.61      A
ATOM   4027  C   CYS A 521     -41.634  51.716  47.402  1.00 45.88      A
ATOM   4028  O   CYS A 521     -40.479  51.387  47.665  1.00 44.99      A
ATOM   4029  N   GLY A 522     -42.370  52.485  48.190  1.00 45.13      A
ATOM   4030  CA  GLY A 522     -41.823  52.985  49.429  1.00 46.79      A
ATOM   4031  C   GLY A 522     -41.607  51.881  50.440  1.00 47.53      A
ATOM   4032  O   GLY A 522     -40.627  51.896  51.173  1.00 48.50      A
ATOM   4033  N   ARG A 523     -42.512  50.910  50.474  1.00 49.33      A
ATOM   4034  CA  ARG A 523     -42.405  49.817  51.433  1.00 51.09      A
ATOM   4035  CB  ARG A 523     -43.720  49.018  51.476  1.00 54.46      A
ATOM   4036  CG  ARG A 523     -43.832  48.045  52.658  1.00 60.65      A
ATOM   4037  CD  ARG A 523     -45.182  47.320  52.697  1.00 65.13      A
ATOM   4038  NE  ARG A 523     -46.313  48.226  52.469  1.00 70.96      A
ATOM   4039  CZ  ARG A 523     -46.697  49.202  53.292  1.00 73.03      A
ATOM   4040  NH1 ARG A 523     -46.048  49.422  54.431  1.00 73.71      A
ATOM   4041  NH2 ARG A 523     -47.737  49.969  52.971  1.00 73.05      A
ATOM   4042  C   ARG A 523     -41.242  48.881  51.132  1.00 49.75      A
ATOM   4043  O   ARG A 523     -40.509  48.476  52.040  1.00 48.82      A
ATOM   4044  N   TYR A 524     -41.068  48.558  49.854  1.00 48.56      A
ATOM   4045  CA  TYR A 524     -40.013  47.643  49.440  1.00 48.29      A
ATOM   4046  CB  TYR A 524     -40.486  46.794  48.244  1.00 49.34      A
ATOM   4047  CG  TYR A 524     -41.538  45.757  48.605  1.00 49.45      A
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ATOM   4048  CD1 TYR A 524     -42.891  46.090  48.664  1.00 48.06      A
ATOM   4049  CE1 TYR A 524     -43.849  45.160  49.058  1.00 48.72      A
ATOM   4050  CD2 TYR A 524     -41.167  44.458  48.946  1.00 49.63      A
ATOM   4051  CE2 TYR A 524     -42.112  43.517  49.343  1.00 51.14      A
ATOM   4052  CZ  TYR A 524     -43.457  43.869  49.401  1.00 51.11      A
ATOM   4053  OH  TYR A 524     -44.392  42.930  49.819  1.00 48.32      A
ATOM   4054  C   TYR A 524     -38.665  48.278  49.116  1.00 47.16      A
ATOM   4055  O   TYR A 524     -37.641  47.852  49.649  1.00 47.70      A
ATOM   4056  N   LEU A 525     -38.658  49.293  48.256  1.00 44.80      A
ATOM   4057  CA  LEU A 525     -37.413  49.944  47.858  1.00 42.49      A
ATOM   4058  CB  LEU A 525     -37.660  50.917  46.706  1.00 40.01      A
ATOM   4059  CG  LEU A 525     -38.246  50.357  45.412  1.00 37.99      A
ATOM   4060  CD1 LEU A 525     -38.614  51.506  44.490  1.00 38.31      A
ATOM   4061  CD2 LEU A 525     -37.253  49.429  44.755  1.00 37.05      A
ATOM   4062  C   LEU A 525     -36.714  50.696  48.974  1.00 43.26      A
ATOM   4063  O   LEU A 525     -35.488  50.734  49.017  1.00 44.32      A
ATOM   4064  N   PHE A 526     -37.486  51.286  49.882  1.00 43.55      A
ATOM   4065  CA  PHE A 526     -36.903  52.073  50.969  1.00 43.37      A
ATOM   4066  CB  PHE A 526     -37.532  53.463  50.936  1.00 40.62      A
ATOM   4067  CG  PHE A 526     -37.248  54.191  49.662  1.00 41.24      A
ATOM   4068  CD1 PHE A 526     -36.005  54.776  49.445  1.00 40.40      A
ATOM   4069  CD2 PHE A 526     -38.189  54.227  48.641  1.00 41.78      A
ATOM   4070  CE1 PHE A 526     -35.697  55.369  48.227  1.00 39.41      A
ATOM   4071  CE2 PHE A 526     -37.887  54.822  47.413  1.00 41.51      A
ATOM   4072  CZ  PHE A 526     -36.641  55.398  47.211  1.00 39.73      A
ATOM   4073  C   PHE A 526     -36.939  51.488  52.384  1.00 44.00      A
ATOM   4074  O   PHE A 526     -36.626  52.168  53.356  1.00 43.23      A
ATOM   4075  N   ASN A 527     -37.285  50.215  52.499  1.00 45.67      A
ATOM   4076  CA  ASN A 527     -37.333  49.585  53.805  1.00 47.29      A
ATOM   4077  CB  ASN A 527     -37.650  48.098  53.664  1.00 46.56      A
ATOM   4078  CG  ASN A 527     -38.604  47.624  54.718  1.00 47.36      A
ATOM   4079  OD1 ASN A 527     -39.630  48.268  54.961  1.00 49.20      A
ATOM   4080  ND2 ASN A 527     -38.287  46.503  55.356  1.00 45.67      A
ATOM   4081  C   ASN A 527     -36.003  49.758  54.528  1.00 48.26      A
ATOM   4082  O   ASN A 527     -35.921  49.662  55.752  1.00 49.62      A
ATOM   4083  N   TRP A 528     -34.956  50.027  53.766  1.00 49.09      A
ATOM   4084  CA  TRP A 528     -33.638  50.189  54.354  1.00 49.95      A
ATOM   4085  CB  TRP A 528     -32.575  50.051  53.267  1.00 47.40      A
ATOM   4086  CG  TRP A 528     -32.734  51.063  52.186  1.00 45.06      A
ATOM   4087  CD2 TRP A 528     -32.215  52.397  52.187  1.00 44.14      A
ATOM   4088  CE2 TRP A 528     -32.662  53.022  51.001  1.00 44.11      A
ATOM   4089  CE3 TRP A 528     -31.423  53.129  53.084  1.00 42.40      A
ATOM   4090  CD1 TRP A 528     -33.448  50.930  51.028  1.00 44.55      A
ATOM   4091  NE1 TRP A 528     -33.409  52.105  50.308  1.00 44.18      A
ATOM   4092  CZ2 TRP A 528     -32.333  54.338  50.684  1.00 42.92      A
ATOM   4093  CZ3 TRP A 528     -31.097  54.433  52.768  1.00 41.96      A
ATOM   4094  CH2 TRP A 528     -31.555  55.027  51.578  1.00 43.08      A
ATOM   4095  C   TRP A 528     -33.470  51.530  55.067  1.00 51.41      A
ATOM   4096  O   TRP A 528     -32.540  51.708  55.852  1.00 50.66      A
ATOM   4097  N   ALA A 529     -34.370  52.470  54.794  1.00 53.39      A
ATOM   4098  CA  ALA A 529     -34.292  53.797  55.398  1.00 56.07      A
ATOM   4099  CB  ALA A 529     -35.055  54.807  54.536  1.00 54.06      A
ATOM   4100  C   ALA A 529     -34.795  53.850  56.839  1.00 58.59      A
ATOM   4101  O   ALA A 529     -34.322  54.670  57.629  1.00 60.14      A
ATOM   4102  N   VAL A 530     -35.744  52.977  57.176  1.00 60.88      A
ATOM   4103  CA  VAL A 530     -36.325  52.920  58.522  1.00 62.74      A
ATOM   4104  CB  VAL A 530     -37.806  52.524  58.463  1.00 63.02      A
ATOM   4105  CG1 VAL A 530     -38.548  53.430  57.502  1.00 63.60      A
ATOM   4106  CG2 VAL A 530     -37.942  51.078  58.028  1.00 61.88      A
ATOM   4107  C   VAL A 530     -35.615  51.893  59.394  1.00 65.11      A
ATOM   4108  O   VAL A 530     -34.949  50.996  58.879  1.00 65.72      A
ATOM   4109  N   ARG A 531     -35.755  52.013  60.712  1.00 68.36      A
ATOM   4110  CA  ARG A 531     -35.116  51.043  61.605  1.00 70.73      A
ATOM   4111  CB  ARG A 531     -34.413  51.746  62.772  1.00 74.00      A
ATOM   4112  CG  ARG A 531     -33.068  52.341  62.353  1.00 79.78      A
ATOM   4113  CD  ARG A 531     -32.242  51.290  61.592  1.00 83.98      A
ATOM   4114  NE  ARG A 531     -31.181  51.856  60.759  1.00 87.18      A
ATOM   4115  CZ  ARG A 531     -30.573  51.189  59.779  1.00 89.06      A
ATOM   4116  NH1 ARG A 531     -30.925  49.935  59.512  1.00 89.63      A
ATOM   4117  NH2 ARG A 531     -29.617  51.773  59.063  1.00 89.43      A
ATOM   4118  C   ARG A 531     -36.112  50.010  62.104  1.00 69.94      A
ATOM   4119  O   ARG A 531     -35.757  48.858  62.364  1.00 68.71      A
ATOM   4120  N   THR A 532     -37.364  50.430  62.228  1.00 69.91      A
ATOM   4121  CA  THR A 532     -38.420  49.523  62.635  1.00 70.28      A
ATOM   4122  CB  THR A 532     -39.525  50.263  63.393  1.00 69.67      A
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ATOM   4123  OG1 THR A 532     -38.956  50.906  64.539  1.00 69.43      A
ATOM   4124  CG2 THR A 532     -40.594  49.292  63.851  1.00 69.27      A
ATOM   4125  C   THR A 532     -38.946  48.996  61.306  1.00 70.21      A
ATOM   4126  O   THR A 532     -40.065  49.292  60.890  1.00 69.42      A
ATOM   4127  N   LYS A 533     -38.092  48.222  60.643  1.00 71.80      A
ATOM   4128  CA  LYS A 533     -38.378  47.644  59.335  1.00 73.83      A
ATOM   4129  CB  LYS A 533     -37.162  46.848  58.847  1.00 73.17      A
ATOM   4130  CG  LYS A 533     -35.900  47.689  58.704  1.00 73.20      A
ATOM   4131  CD  LYS A 533     -34.819  46.939  57.951  1.00 73.35      A
ATOM   4132  CE  LYS A 533     -33.670  47.854  57.551  1.00 71.96      A
ATOM   4133  NZ  LYS A 533     -32.740  47.151  56.624  1.00 69.48      A
ATOM   4134  C   LYS A 533     -39.616  46.765  59.269  1.00 74.76      A
ATOM   4135  O   LYS A 533     -39.967  46.088  60.239  1.00 75.08      A
ATOM   4136  N   LEU A 534     -40.270  46.786  58.110  1.00 75.07      A
ATOM   4137  CA  LEU A 534     -41.470  45.991  57.877  1.00 75.67      A
ATOM   4138  CB  LEU A 534     -42.344  46.650  56.807  1.00 74.33      A
ATOM   4139  CG  LEU A 534     -42.574  48.156  56.961  1.00 74.65      A
ATOM   4140  CD1 LEU A 534     -43.537  48.636  55.890  1.00 72.33      A
ATOM   4141  CD2 LEU A 534     -43.127  48.458  58.347  1.00 73.95      A
ATOM   4142  C   LEU A 534     -41.054  44.604  57.400  1.00 76.54      A
ATOM   4143  O   LEU A 534     -39.939  44.416  56.903  1.00 76.97      A
ATOM   4144  N   LYS A 535     -41.943  43.631  57.566  1.00 76.75      A
ATOM   4145  CA  LYS A 535     -41.657  42.270  57.131  1.00 76.20      A
ATOM   4146  CB  LYS A 535     -42.452  41.258  57.963  1.00 78.13      A
ATOM   4147  CG  LYS A 535     -42.152  41.318  59.461  1.00 80.69      A
ATOM   4148  CD  LYS A 535     -40.668  41.077  59.747  1.00 82.68      A
ATOM   4149  CE  LYS A 535     -40.342  41.275  61.225  1.00 83.83      A
ATOM   4150  NZ  LYS A 535     -38.886  41.117  61.514  1.00 84.09      A
ATOM   4151  C   LYS A 535     -42.075  42.207  55.678  1.00 74.13      A
ATOM   4152  O   LYS A 535     -43.260  42.254  55.360  1.00 74.20      A
ATOM   4153  N   LEU A 536     -41.096  42.120  54.791  1.00 72.16      A
ATOM   4154  CA  LEU A 536     -41.392  42.080  53.373  1.00 70.55      A
ATOM   4155  CB  LEU A 536     -40.224  42.681  52.593  1.00 67.92      A
ATOM   4156  CG  LEU A 536     -40.043  44.147  52.982  1.00 65.66      A
ATOM   4157  CD1 LEU A 536     -38.868  44.735  52.249  1.00 66.28      A
ATOM   4158  CD2 LEU A 536     -41.311  44.915  52.663  1.00 64.43      A
ATOM   4159  C   LEU A 536     -41.745  40.688  52.864  1.00 70.08      A
ATOM   4160  O   LEU A 536     -40.961  39.743  52.958  1.00 69.71      A
ATOM   4161  N   THR A 537     -42.954  40.582  52.332  1.00 69.83      A
ATOM   4162  CA  THR A 537     -43.466  39.330  51.807  1.00 70.70      A
ATOM   4163  CB  THR A 537     -44.849  39.003  52.399  1.00 72.44      A
ATOM   4164  OG1 THR A 537     -45.766  40.064  52.086  1.00 72.35      A
ATOM   4165  CG2 THR A 537     -44.754  38.832  53.910  1.00 71.63      A
ATOM   4166  C   THR A 537     -43.620  39.437  50.302  1.00 69.70      A
ATOM   4167  O   THR A 537     -43.785  40.529  49.764  1.00 68.91      A
ATOM   4168  N   PRO A 538     -43.585  38.295  49.607  1.00 69.07      A
ATOM   4169  CD  PRO A 538     -43.436  36.939  50.166  1.00 68.99      A
ATOM   4170  CA  PRO A 538     -43.721  38.245  48.151  1.00 69.57      A
ATOM   4171  CB  PRO A 538     -44.049  36.780  47.895  1.00 68.26      A
ATOM   4172  CG  PRO A 538     -43.208  36.095  48.922  1.00 69.21      A
ATOM   4173  C   PRO A 538     -44.793  39.187  47.624  1.00 69.80      A
ATOM   4174  O   PRO A 538     -45.885  39.257  48.170  1.00 70.81      A
ATOM   4175  N   ILE A 539     -44.471  39.923  46.569  1.00 70.54      A
ATOM   4176  CA  ILE A 539     -45.428  40.845  45.978  1.00 72.87      A
ATOM   4177  CB  ILE A 539     -44.723  42.023  45.284  1.00 71.95      A
ATOM   4178  CG2 ILE A 539     -45.754  42.961  44.681  1.00 69.10      A
ATOM   4179  CG1 ILE A 539     -43.833  42.755  46.290  1.00 72.56      A
ATOM   4180  CD1 ILE A 539     -43.041  43.905  45.704  1.00 72.94      A
ATOM   4181  C   ILE A 539     -46.244  40.082  44.945  1.00 75.71      A
ATOM   4182  O   ILE A 539     -45.700  39.555  43.976  1.00 76.50      A
ATOM   4183  N   PRO A 540     -47.568  40.015  45.138  1.00 77.74      A
ATOM   4184  CD  PRO A 540     -48.319  40.623  46.251  1.00 77.74      A
ATOM   4185  CA  PRO A 540     -48.471  39.308  44.225  1.00 79.42      A
ATOM   4186  CB  PRO A 540     -49.848  39.735  44.718  1.00 79.44      A
ATOM   4187  CG  PRO A 540     -49.633  39.888  46.187  1.00 78.65      A
ATOM   4188  C   PRO A 540     -48.276  39.591  42.732  1.00 81.09      A
ATOM   4189  O   PRO A 540     -47.831  38.722  41.984  1.00 81.29      A
ATOM   4190  N   ALA A 541     -48.609  40.806  42.307  1.00 82.72      A
ATOM   4191  CA  ALA A 541     -48.511  41.201  40.902  1.00 84.18      A
ATOM   4192  CB  ALA A 541     -48.894  42.670  40.763  1.00 83.86      A
ATOM   4193  C   ALA A 541     -47.160  40.949  40.221  1.00 85.47      A
ATOM   4194  O   ALA A 541     -47.022  41.168  39.015  1.00 85.17      A
ATOM   4195  N   ALA A 542     -46.173  40.482  40.980  1.00 86.94      A
ATOM   4196  CA  ALA A 542     -44.841  40.227  40.429  1.00 88.79      A
ATOM   4197  CB  ALA A 542     -43.847  39.968  41.563  1.00 88.21      A
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ATOM	4198	C	ALA	A	542	-44.787	39.080	39.417	1.00	89.67	A
ATOM	4199	O	ALA	A	542	-44.565	39.306	38.226	1.00	89.56	A
ATOM	4200	N	SER	A	543	-44.977	37.853	39.896	1.00	90.50	A
ATOM	4201	CA	SER	A	543	-44.943	36.670	39.034	1.00	91.15	A
ATOM	4202	CB	SER	A	543	-45.153	35.408	39.878	1.00	91.38	A
ATOM	4203	OG	SER	A	543	-46.288	35.540	40.717	1.00	92.58	A
ATOM	4204	C	SER	A	543	-45.961	36.711	37.883	1.00	90.78	A
ATOM	4205	O	SER	A	543	-45.901	35.893	36.961	1.00	90.84	A
ATOM	4206	N	GLN	A	544	-46.890	37.662	37.941	1.00	90.17	A
ATOM	4207	CA	GLN	A	544	-47.901	37.823	36.897	1.00	89.53	A
ATOM	4208	CB	GLN	A	544	-49.085	38.645	37.424	1.00	90.96	A
ATOM	4209	CG	GLN	A	544	-50.129	38.992	36.355	1.00	93.07	A
ATOM	4210	CD	GLN	A	544	-51.077	40.118	36.771	1.00	93.75	A
ATOM	4211	OE1	GLN	A	544	-51.945	40.530	35.995	1.00	92.44	A
ATOM	4212	NE2	GLN	A	544	-50.911	40.619	37.995	1.00	93.76	A
ATOM	4213	C	GLN	A	544	-47.262	38.561	35.724	1.00	88.22	A
ATOM	4214	O	GLN	A	544	-47.795	38.586	34.615	1.00	87.71	A
ATOM	4215	N	LEU	A	545	-46.108	39.161	35.995	1.00	87.49	A
ATOM	4216	CA	LEU	A	545	-45.353	39.933	35.012	1.00	85.51	A
ATOM	4217	CB	LEU	A	545	-44.302	40.778	35.735	1.00	84.44	A
ATOM	4218	CG	LEU	A	545	-44.200	42.264	35.412	1.00	82.91	A
ATOM	4219	CD1	LEU	A	545	-42.944	42.801	36.078	1.00	81.51	A
ATOM	4220	CD2	LEU	A	545	-44.151	42.484	33.905	1.00	82.94	A
ATOM	4221	C	LEU	A	545	-44.661	39.058	33.960	1.00	84.33	A
ATOM	4222	O	LEU	A	545	-44.032	38.047	34.286	1.00	84.07	A
ATOM	4223	N	ASP	A	546	-44.773	39.461	32.698	1.00	82.53	A
ATOM	4224	CA	ASP	A	546	-44.149	38.721	31.609	1.00	80.90	A
ATOM	4225	CB	ASP	A	546	-44.962	38.878	30.322	1.00	80.92	A
ATOM	4226	CG	ASP	A	546	-44.216	38.383	29.099	1.00	81.12	A
ATOM	4227	OD1	ASP	A	546	-43.595	37.300	29.174	1.00	80.36	A
ATOM	4228	OD2	ASP	A	546	-44.260	39.075	28.059	1.00	81.62	A
ATOM	4229	C	ASP	A	546	-42.726	39.211	31.387	1.00	78.93	A
ATOM	4230	O	ASP	A	546	-42.502	40.252	30.767	1.00	79.02	A
ATOM	4231	N	LEU	A	547	-41.764	38.455	31.900	1.00	76.15	A
ATOM	4232	CA	LEU	A	547	-40.371	38.829	31.762	1.00	73.72	A
ATOM	4233	CB	LEU	A	547	-39.683	38.806	33.118	1.00	74.72	A
ATOM	4234	CG	LEU	A	547	-39.865	40.067	33.960	1.00	75.24	A
ATOM	4235	CD1	LEU	A	547	-41.334	40.443	34.051	1.00	75.80	A
ATOM	4236	CD2	LEU	A	547	-39.283	39.819	35.342	1.00	76.26	A
ATOM	4237	C	LEU	A	547	-39.632	37.929	30.808	1.00	71.60	A
ATOM	4238	O	LEU	A	547	-38.425	38.050	30.649	1.00	71.01	A
ATOM	4239	N	SER	A	548	-40.349	37.011	30.178	1.00	70.33	A
ATOM	4240	CA	SER	A	548	-39.708	36.120	29.227	1.00	68.17	A
ATOM	4241	CB	SER	A	548	-40.734	35.184	28.578	1.00	67.78	A
ATOM	4242	OG	SER	A	548	-41.744	35.918	27.907	1.00	68.62	A
ATOM	4243	C	SER	A	548	-39.103	37.040	28.183	1.00	66.90	A
ATOM	4244	O	SER	A	548	-39.659	38.103	27.890	1.00	67.61	A
ATOM	4245	N	GLY	A	549	-37.957	36.648	27.642	1.00	63.92	A
ATOM	4246	CA	GLY	A	549	-37.310	37.465	26.635	1.00	61.32	A
ATOM	4247	C	GLY	A	549	-36.476	38.589	27.215	1.00	59.04	A
ATOM	4248	O	GLY	A	549	-35.884	39.375	26.475	1.00	60.10	A
ATOM	4249	N	TRP	A	550	-36.418	38.669	28.538	1.00	55.84	A
ATOM	4250	CA	TRP	A	550	-35.647	39.716	29.189	1.00	53.44	A
ATOM	4251	CB	TRP	A	550	-36.208	39.994	30.576	1.00	53.59	A
ATOM	4252	CG	TRP	A	550	-37.118	41.165	30.588	1.00	54.15	A
ATOM	4253	CD2	TRP	A	550	-37.018	42.309	31.432	1.00	54.12	A
ATOM	4254	CE2	TRP	A	550	-38.071	43.177	31.079	1.00	55.40	A
ATOM	4255	CE3	TRP	A	550	-36.140	42.687	32.452	1.00	54.39	A
ATOM	4256	CD1	TRP	A	550	-38.197	41.372	29.782	1.00	53.23	A
ATOM	4257	NE1	TRP	A	550	-38.774	42.579	30.067	1.00	53.46	A
ATOM	4258	CZ2	TRP	A	550	-38.274	44.407	31.717	1.00	56.17	A
ATOM	4259	CZ3	TRP	A	550	-36.340	43.906	33.087	1.00	55.92	A
ATOM	4260	CH2	TRP	A	550	-37.400	44.753	32.715	1.00	56.07	A
ATOM	4261	C	TRP	A	550	-34.162	39.410	29.292	1.00	52.14	A
ATOM	4262	O	TRP	A	550	-33.324	40.315	29.258	1.00	52.73	A
ATOM	4263	N	PHE	A	551	-33.825	38.139	29.419	1.00	48.07	A
ATOM	4264	CA	PHE	A	551	-32.431	37.795	29.511	1.00	46.21	A
ATOM	4265	CB	PHE	A	551	-32.053	37.582	30.968	1.00	45.78	A
ATOM	4266	CG	PHE	A	551	-32.135	38.835	31.784	1.00	44.06	A
ATOM	4267	CD1	PHE	A	551	-31.243	39.875	31.565	1.00	43.94	A
ATOM	4268	CD2	PHE	A	551	-33.114	38.986	32.755	1.00	44.14	A
ATOM	4269	CE1	PHE	A	551	-31.319	41.051	32.295	1.00	43.34	A
ATOM	4270	CE2	PHE	A	551	-33.201	40.158	33.492	1.00	44.41	A
ATOM	4271	CZ	PHE	A	551	-32.297	41.194	33.262	1.00	44.21	A
ATOM	4272	C	PHE	A	551	-32.159	36.575	28.670	1.00	46.63	A

ATOM	4273	O	PHE	A	551	-31.735	35.524	29.163	1.00	47.71	A
ATOM	4274	N	VAL	A	552	-32.411	36.741	27.377	1.00	44.27	A
ATOM	4275	CA	VAL	A	552	-32.204	35.685	26.415	1.00	41.41	A
ATOM	4276	CB	VAL	A	552	-33.463	35.479	25.563	1.00	41.54	A
ATOM	4277	CG1	VAL	A	552	-33.223	34.402	24.515	1.00	40.49	A
ATOM	4278	CG2	VAL	A	552	-34.615	35.102	26.453	1.00	40.77	A
ATOM	4279	C	VAL	A	552	-31.030	35.989	25.499	1.00	40.32	A
ATOM	4280	O	VAL	A	552	-30.192	35.124	25.257	1.00	40.45	A
ATOM	4281	N	ALA	A	553	-30.953	37.213	24.992	1.00	38.47	A
ATOM	4282	CA	ALA	A	553	-29.861	37.548	24.086	1.00	39.13	A
ATOM	4283	CB	ALA	A	553	-30.234	37.136	22.667	1.00	38.43	A
ATOM	4284	C	ALA	A	553	-29.447	39.011	24.094	1.00	38.46	A
ATOM	4285	O	ALA	A	553	-30.235	39.881	24.439	1.00	39.95	A
ATOM	4286	N	GLY	A	554	-28.201	39.269	23.713	1.00	37.14	A
ATOM	4287	CA	GLY	A	554	-27.710	40.632	23.644	1.00	37.04	A
ATOM	4288	C	GLY	A	554	-28.022	41.241	22.280	1.00	37.27	A
ATOM	4289	O	GLY	A	554	-28.037	40.546	21.258	1.00	36.70	A
ATOM	4290	N	TYR	A	555	-28.270	42.545	22.250	1.00	36.40	A
ATOM	4291	CA	TYR	A	555	-28.599	43.213	20.996	1.00	36.06	A
ATOM	4292	CB	TYR	A	555	-30.114	43.372	20.869	1.00	35.45	A
ATOM	4293	CG	TYR	A	555	-30.890	42.076	20.896	1.00	35.42	A
ATOM	4294	CD1	TYR	A	555	-31.137	41.362	19.724	1.00	32.53	A
ATOM	4295	CE1	TYR	A	555	-31.893	40.198	19.747	1.00	33.79	A
ATOM	4296	CD2	TYR	A	555	-31.411	41.583	22.094	1.00	33.90	A
ATOM	4297	CE2	TYR	A	555	-32.161	40.418	22.128	1.00	32.75	A
ATOM	4298	CZ	TYR	A	555	-32.404	39.732	20.957	1.00	33.44	A
ATOM	4299	OH	TYR	A	555	-33.175	38.594	20.990	1.00	32.92	A
ATOM	4300	C	TYR	A	555	-27.960	44.586	20.911	1.00	35.95	A
ATOM	4301	O	TYR	A	555	-28.520	45.494	20.306	1.00	34.73	A
ATOM	4302	N	SER	A	556	-26.796	44.742	21.529	1.00	38.20	A
ATOM	4303	CA	SER	A	556	-26.099	46.027	21.506	1.00	40.59	A
ATOM	4304	CB	SER	A	556	-24.714	45.883	22.143	1.00	40.51	A
ATOM	4305	OG	SER	A	556	-23.957	47.066	21.962	1.00	43.38	A
ATOM	4306	C	SER	A	556	-25.961	46.577	20.078	1.00	39.85	A
ATOM	4307	O	SER	A	556	-25.301	45.977	19.230	1.00	39.41	A
ATOM	4308	N	GLY	A	557	-26.592	47.719	19.825	1.00	39.70	A
ATOM	4309	CA	GLY	A	557	-26.532	48.320	18.503	1.00	39.01	A
ATOM	4310	C	GLY	A	557	-27.358	47.563	17.480	1.00	39.16	A
ATOM	4311	O	GLY	A	557	-27.196	47.763	16.279	1.00	41.14	A
ATOM	4312	N	GLY	A	558	-28.257	46.705	17.955	1.00	38.91	A
ATOM	4313	CA	GLY	A	558	-29.094	45.915	17.063	1.00	38.15	A
ATOM	4314	C	GLY	A	558	-30.421	46.527	16.638	1.00	37.48	A
ATOM	4315	O	GLY	A	558	-31.170	45.913	15.872	1.00	36.67	A
ATOM	4316	N	ASP	A	559	-30.716	47.727	17.134	1.00	37.32	A
ATOM	4317	CA	ASP	A	559	-31.951	48.420	16.793	1.00	36.41	A
ATOM	4318	CB	ASP	A	559	-31.970	48.664	15.283	1.00	36.66	A
ATOM	4319	CG	ASP	A	559	-33.005	49.687	14.867	1.00	39.13	A
ATOM	4320	OD1	ASP	A	559	-33.290	50.611	15.662	1.00	39.17	A
ATOM	4321	OD2	ASP	A	559	-33.518	49.578	13.735	1.00	39.14	A
ATOM	4322	C	ASP	A	559	-33.171	47.601	17.236	1.00	36.67	A
ATOM	4323	O	ASP	A	559	-34.185	47.553	16.548	1.00	37.42	A
ATOM	4324	N	ILE	A	560	-33.064	46.965	18.396	1.00	36.70	A
ATOM	4325	CA	ILE	A	560	-34.136	46.131	18.918	1.00	38.66	A
ATOM	4326	CB	ILE	A	560	-33.574	44.800	19.473	1.00	36.60	A
ATOM	4327	CG2	ILE	A	560	-34.678	43.991	20.156	1.00	33.38	A
ATOM	4328	CG1	ILE	A	560	-32.956	43.996	18.342	1.00	34.51	A
ATOM	4329	CD1	ILE	A	560	-33.946	43.600	17.284	1.00	38.35	A
ATOM	4330	C	ILE	A	560	-34.957	46.804	20.012	1.00	43.04	A
ATOM	4331	O	ILE	A	560	-34.425	47.496	20.881	1.00	43.01	A
ATOM	4332	N	TYR	A	561	-36.260	46.567	19.972	1.00	48.01	A
ATOM	4333	CA	TYR	A	561	-37.176	47.147	20.934	1.00	54.93	A
ATOM	4334	CB	TYR	A	561	-37.573	48.559	20.497	1.00	56.69	A
ATOM	4335	CG	TYR	A	561	-38.684	49.181	21.318	1.00	58.27	A
ATOM	4336	CD1	TYR	A	561	-38.399	50.002	22.400	1.00	59.77	A
ATOM	4337	CE1	TYR	A	561	-39.420	50.579	23.149	1.00	62.68	A
ATOM	4338	CD2	TYR	A	561	-40.024	48.949	21.005	1.00	59.61	A
ATOM	4339	CE2	TYR	A	561	-41.050	49.513	21.746	1.00	60.75	A
ATOM	4340	CZ	TYR	A	561	-40.745	50.328	22.816	1.00	62.94	A
ATOM	4341	OH	TYR	A	561	-41.762	50.890	23.556	1.00	64.62	A
ATOM	4342	C	TYR	A	561	-38.436	46.315	21.065	1.00	59.19	A
ATOM	4343	O	TYR	A	561	-39.349	46.421	20.240	1.00	59.59	A
ATOM	4344	N	HIS	A	562	-38.486	45.455	22.068	1.00	64.02	A
ATOM	4345	CA	HIS	A	562	-39.705	44.699	22.279	1.00	69.33	A
ATOM	4346	CB	HIS	A	562	-39.562	43.200	21.931	1.00	70.30	A
ATOM	4347	CG	HIS	A	562	-38.247	42.593	22.297	1.00	71.05	A

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ATOM   4348  CD2 HIS A 562     -37.267  42.069  21.524  1.00 71.82      A
ATOM   4349  ND1 HIS A 562     -37.843  42.412  23.602  1.00 73.81      A
ATOM   4350  CE1 HIS A 562     -36.671  41.800  23.617  1.00 74.63      A
ATOM   4351  NE2 HIS A 562     -36.299  41.581  22.368  1.00 72.98      A
ATOM   4352  C   HIS A 562     -40.094  44.927  23.721  1.00 71.45      A
ATOM   4353  O   HIS A 562     -39.525  44.345  24.644  1.00 72.63      A
ATOM   4354  N   SER A 563     -41.051  45.831  23.895  1.00 74.06      A
ATOM   4355  CA  SER A 563     -41.537  46.198  25.212  1.00 77.31      A
ATOM   4356  CB  SER A 563     -40.969  47.568  25.596  1.00 77.14      A
ATOM   4357  OG  SER A 563     -41.273  47.873  26.944  1.00 79.65      A
ATOM   4358  C   SER A 563     -43.069  46.224  25.264  1.00 78.04      A
ATOM   4359  O   SER A 563     -43.630  47.310  25.531  1.00 78.23      A
ATOM   4360  OXT SER A 563     -43.688  45.157  25.037  1.00 78.79      A
ATOM   4361  CB  SER B   1     -45.690  21.142  -6.797  1.00 32.54      B
ATOM   4362  OG  SER B   1     -44.445  20.462  -6.715  1.00 34.22      B
ATOM   4363  C   SER B   1     -46.743  19.070  -7.664  1.00 34.31      B
ATOM   4364  O   SER B   1     -46.447  17.919  -7.324  1.00 36.15      B
ATOM   4365  N   SER B   1     -46.891  19.626  -5.232  1.00 31.74      B
ATOM   4366  CA  SER B   1     -46.866  20.178  -6.625  1.00 33.39      B
ATOM   4367  N   MET B   2     -46.963  19.408  -8.932  1.00 33.34      B
ATOM   4368  CA  MET B   2     -46.842  18.398  -9.979  1.00 33.36      B
ATOM   4369  CB  MET B   2     -47.562  18.838 -11.258  1.00 31.97      B
ATOM   4370  CG  MET B   2     -49.095  18.802 -11.197  1.00 33.27      B
ATOM   4371  SD  MET B   2     -49.847  17.227 -10.676  1.00 36.21      B
ATOM   4372  CE  MET B   2     -49.143  16.067 -11.823  1.00 32.55      B
ATOM   4373  C   MET B   2     -45.368  18.152 -10.290  1.00 33.06      B
ATOM   4374  O   MET B   2     -44.585  19.093 -10.430  1.00 33.63      B
ATOM   4375  N   SER B   3     -44.987  16.886 -10.384  1.00 31.13      B
ATOM   4376  CA  SER B   3     -43.612  16.543 -10.707  1.00 30.80      B
ATOM   4377  CB  SER B   3     -43.457  15.026 -10.750  1.00 30.72      B
ATOM   4378  OG  SER B   3     -44.293  14.449 -11.750  1.00 29.83      B
ATOM   4379  C   SER B   3     -43.258  17.127 -12.085  1.00 32.67      B
ATOM   4380  O   SER B   3     -42.139  17.614 -12.314  1.00 32.14      B
ATOM   4381  N   TYR B   4     -44.231  17.081 -12.995  1.00 31.54      B
ATOM   4382  CA  TYR B   4     -44.041  17.564 -14.352  1.00 31.49      B
ATOM   4383  CB  TYR B   4     -43.703  16.391 -15.284  1.00 32.86      B
ATOM   4384  CG  TYR B   4     -42.331  15.803 -15.073  1.00 33.57      B
ATOM   4385  CD1 TYR B   4     -41.209  16.389 -15.645  1.00 32.35      B
ATOM   4386  CE1 TYR B   4     -39.946  15.870 -15.423  1.00 32.34      B
ATOM   4387  CD2 TYR B   4     -42.149  14.676 -14.272  1.00 33.48      B
ATOM   4388  CE2 TYR B   4     -40.888  14.154 -14.046  1.00 31.48      B
ATOM   4389  CZ  TYR B   4     -39.795  14.757 -14.622  1.00 31.65      B
ATOM   4390  OH  TYR B   4     -38.539  14.258 -14.386  1.00 33.78      B
ATOM   4391  C   TYR B   4     -45.276  18.260 -14.893  1.00 31.38      B
ATOM   4392  O   TYR B   4     -46.388  18.024 -14.432  1.00 31.37      B
ATOM   4393  N   THR B   5     -45.054  19.114 -15.885  1.00 30.27      B
ATOM   4394  CA  THR B   5     -46.110  19.843 -16.552  1.00 29.95      B
ATOM   4395  CB  THR B   5     -46.164  21.299 -16.125  1.00 28.94      B
ATOM   4396  OG1 THR B   5     -46.414  21.378 -14.719  1.00 30.42      B
ATOM   4397  CG2 THR B   5     -47.282  22.005 -16.873  1.00 28.51      B
ATOM   4398  C   THR B   5     -45.725  19.801 -18.013  1.00 30.72      B
ATOM   4399  O   THR B   5     -44.634  20.239 -18.367  1.00 31.96      B
ATOM   4400  N   TRP B   6     -46.611  19.285 -18.860  1.00 29.25      B
ATOM   4401  CA  TRP B   6     -46.304  19.172 -20.279  1.00 26.82      B
ATOM   4402  CB  TRP B   6     -46.568  17.750 -20.735  1.00 25.17      B
ATOM   4403  CG  TRP B   6     -45.934  16.752 -19.845  1.00 27.05      B
ATOM   4404  CD2 TRP B   6     -44.538  16.440 -19.768  1.00 27.79      B
ATOM   4405  CE2 TRP B   6     -44.385  15.467 -18.755  1.00 27.57      B
ATOM   4406  CE3 TRP B   6     -43.402  16.884 -20.461  1.00 25.44      B
ATOM   4407  CD1 TRP B   6     -46.552  15.986 -18.901  1.00 27.44      B
ATOM   4408  NE1 TRP B   6     -45.628  15.211 -18.240  1.00 28.78      B
ATOM   4409  CZ2 TRP B   6     -43.142  14.939 -18.410  1.00 27.30      B
ATOM   4410  CZ3 TRP B   6     -42.170  16.364 -20.118  1.00 24.68      B
ATOM   4411  CH2 TRP B   6     -42.048  15.396 -19.102  1.00 27.71      B
ATOM   4412  C   TRP B   6     -47.073  20.145 -21.155  1.00 26.69      B
ATOM   4413  O   TRP B   6     -48.244  20.403 -20.916  1.00 27.42      B
ATOM   4414  N   THR B   7     -46.406  20.674 -22.178  1.00 25.90      B
ATOM   4415  CA  THR B   7     -47.016  21.633 -23.089  1.00 26.44      B
ATOM   4416  CB  THR B   7     -45.978  22.639 -23.651  1.00 25.27      B
ATOM   4417  OG1 THR B   7     -44.993  21.928 -24.413  1.00 25.08      B
ATOM   4418  CG2 THR B   7     -45.299  23.402 -22.544  1.00 19.92      B
ATOM   4419  C   THR B   7     -47.645  20.939 -24.289  1.00 29.65      B
ATOM   4420  O   THR B   7     -48.511  21.504 -24.963  1.00 28.49      B
ATOM   4421  N   GLY B   8     -47.193  19.723 -24.568  1.00 32.23      B
ATOM   4422  CA  GLY B   8     -47.718  19.007 -25.713  1.00 35.15      B
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ATOM   4423  C   GLY B   8     -46.623  18.720 -26.723  1.00 36.04      B
ATOM   4424  O   GLY B   8     -46.706  17.739 -27.461  1.00 35.53      B
ATOM   4425  N   ALA B   9     -45.601  19.573 -26.754  1.00 37.64      B
ATOM   4426  CA  ALA B   9     -44.471  19.387 -27.667  1.00 39.75      B
ATOM   4427  CB  ALA B   9     -43.453  20.506 -27.505  1.00 39.47      B
ATOM   4428  C   ALA B   9     -43.818  18.052 -27.354  1.00 41.08      B
ATOM   4429  O   ALA B   9     -43.824  17.606 -26.207  1.00 39.97      B
ATOM   4430  N   LEU B  10     -43.242  17.430 -28.376  1.00 43.90      B
ATOM   4431  CA  LEU B  10     -42.622  16.122 -28.230  1.00 45.76      B
ATOM   4432  CB  LEU B  10     -42.597  15.393 -29.575  1.00 45.95      B
ATOM   4433  CG  LEU B  10     -43.847  15.282 -30.441  1.00 46.79      B
ATOM   4434  CD1 LEU B  10     -43.548  14.315 -31.591  1.00 43.00      B
ATOM   4435  CD2 LEU B  10     -45.031  14.804 -29.604  1.00 45.61      B
ATOM   4436  C   LEU B  10     -41.212  16.072 -27.681  1.00 47.36      B
ATOM   4437  O   LEU B  10     -40.427  17.017 -27.788  1.00 45.94      B
ATOM   4438  N   ILE B  11     -40.906  14.926 -27.096  1.00 50.67      B
ATOM   4439  CA  ILE B  11     -39.588  14.656 -26.582  1.00 54.75      B
ATOM   4440  CB  ILE B  11     -39.650  13.644 -25.438  1.00 54.39      B
ATOM   4441  CG2 ILE B  11     -38.250  13.226 -25.026  1.00 55.02      B
ATOM   4442  CG1 ILE B  11     -40.411  14.267 -24.267  1.00 53.81      B
ATOM   4443  CD1 ILE B  11     -40.570  13.355 -23.086  1.00 55.28      B
ATOM   4444  C   ILE B  11     -39.016  14.028 -27.835  1.00 58.22      B
ATOM   4445  O   ILE B  11     -39.193  12.834 -28.082  1.00 58.37      B
ATOM   4446  N   THR B  12     -38.367  14.863 -28.642  1.00 62.99      B
ATOM   4447  CA  THR B  12     -37.801  14.454 -29.921  1.00 67.61      B
ATOM   4448  CB  THR B  12     -37.657  15.671 -30.849  1.00 65.97      B
ATOM   4449  OG1 THR B  12     -36.740  16.610 -30.277  1.00 64.98      B
ATOM   4450  CG2 THR B  12     -39.005  16.345 -31.041  1.00 65.30      B
ATOM   4451  C   THR B  12     -36.471  13.703 -29.899  1.00 72.98      B
ATOM   4452  O   THR B  12     -35.693  13.811 -28.947  1.00 72.97      B
ATOM   4453  N   PRO B  13     -36.205  12.921 -30.967  1.00 77.95      B
ATOM   4454  CD  PRO B  13     -37.224  12.605 -31.983  1.00 78.32      B
ATOM   4455  CA  PRO B  13     -35.006  12.101 -31.191  1.00 81.77      B
ATOM   4456  CB  PRO B  13     -35.435  11.160 -32.318  1.00 81.01      B
ATOM   4457  CG  PRO B  13     -36.932  11.169 -32.259  1.00 79.46      B
ATOM   4458  C   PRO B  13     -33.800  12.936 -31.610  1.00 85.77      B
ATOM   4459  O   PRO B  13     -33.495  13.956 -30.995  1.00 86.33      B
ATOM   4460  N   CYS B  14     -33.134  12.476 -32.670  1.00 90.42      B
ATOM   4461  CA  CYS B  14     -31.961  13.129 -33.256  1.00 95.07      B
ATOM   4462  CB  CYS B  14     -31.170  13.904 -32.196  1.00 95.87      B
ATOM   4463  SG  CYS B  14     -29.745  14.804 -32.851  1.00 99.06      B
ATOM   4464  C   CYS B  14     -31.032  12.113 -33.922  1.00 97.27      B
ATOM   4465  O   CYS B  14     -30.229  12.468 -34.789  1.00 97.60      B
ATOM   4466  N   ALA B  15     -31.148  10.849 -33.521  1.00 99.87      B
ATOM   4467  CA  ALA B  15     -30.296   9.793 -34.067  1.00102.19      B
ATOM   4468  CB  ALA B  15     -29.294   9.341 -33.002  1.00101.69      B
ATOM   4469  C   ALA B  15     -31.082   8.589 -34.583  1.00103.67      B
ATOM   4470  O   ALA B  15     -30.499   7.537 -34.855  1.00104.59      B
ATOM   4471  N   ALA B  16     -32.397   8.760 -34.715  1.00104.77      B
ATOM   4472  CA  ALA B  16     -33.320   7.724 -35.185  1.00105.80      B
ATOM   4473  CB  ALA B  16     -32.590   6.663 -36.035  1.00105.34      B
ATOM   4474  C   ALA B  16     -34.039   7.056 -34.013  1.00106.81      B
ATOM   4475  O   ALA B  16     -34.139   5.826 -33.953  1.00107.61      B
ATOM   4476  N   GLU B  17     -34.528   7.879 -33.082  1.00106.85      B
ATOM   4477  CA  GLU B  17     -35.270   7.399 -31.915  1.00106.63      B
ATOM   4478  CB  GLU B  17     -35.175   8.402 -30.755  1.00106.03      B
ATOM   4479  CG  GLU B  17     -33.927   8.288 -29.891  1.00106.21      B
ATOM   4480  CD  GLU B  17     -33.823   9.407 -28.860  1.00106.39      B
ATOM   4481  OE1 GLU B  17     -34.797   9.622 -28.107  1.00106.61      B
ATOM   4482  OE2 GLU B  17     -32.765  10.071 -28.798  1.00106.03      B
ATOM   4483  C   GLU B  17     -36.742   7.203 -32.291  1.00106.78      B
ATOM   4484  O   GLU B  17     -37.585   7.966 -31.776  1.00107.14      B
ATOM   4485  OXT GLU B  17     -37.038   6.297 -33.103  1.00106.39      B
ATOM   4486  CB  MET B  36     -35.705 -11.696 -27.960  1.00 89.55      B
ATOM   4487  CG  MET B  36     -36.849 -12.702 -27.846  1.00 91.70      B
ATOM   4488  SD  MET B  36     -36.518 -13.851 -26.463  1.00 95.67      B
ATOM   4489  CE  MET B  36     -37.785 -13.352 -25.265  1.00 94.38      B
ATOM   4490  C   MET B  36     -35.288  -9.235 -28.044  1.00 86.85      B
ATOM   4491  O   MET B  36     -35.567  -8.950 -26.880  1.00 85.81      B
ATOM   4492  N   MET B  36     -35.631 -10.594 -30.193  1.00 88.55      B
ATOM   4493  CA  MET B  36     -36.002 -10.411 -28.745  1.00 88.07      B
ATOM   4494  N   VAL B  37     -34.393  -8.540 -28.744  1.00 85.40      B
ATOM   4495  CA  VAL B  37     -33.646  -7.445 -28.125  1.00 83.86      B
ATOM   4496  CB  VAL B  37     -32.155  -7.777 -28.119  1.00 83.91      B
ATOM   4497  CG1 VAL B  37     -31.420  -6.811 -27.217  1.00 83.58      B
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ATOM   4498  CG2 VAL B  37     -31.958  -9.205 -27.674  1.00 82.85       B
ATOM   4499  C   VAL B  37     -33.822  -6.055 -28.728  1.00 82.47       B
ATOM   4500  O   VAL B  37     -33.385  -5.761 -29.831  1.00 81.14       B
ATOM   4501  N   TYR B  38     -34.411  -5.178 -27.926  1.00 82.24       B
ATOM   4502  CA  TYR B  38     -34.723  -3.801 -28.301  1.00 80.51       B
ATOM   4503  CB  TYR B  38     -36.199  -3.552 -28.055  1.00 80.79       B
ATOM   4504  CG  TYR B  38     -36.573  -3.620 -26.590  1.00 80.51       B
ATOM   4505  CD1 TYR B  38     -36.627  -4.840 -25.910  1.00 80.72       B
ATOM   4506  CE1 TYR B  38     -36.992  -4.896 -24.543  1.00 80.85       B
ATOM   4507  CD2 TYR B  38     -36.882  -2.461 -25.885  1.00 80.09       B
ATOM   4508  CE2 TYR B  38     -37.240  -2.503 -24.541  1.00 80.75       B
ATOM   4509  CZ  TYR B  38     -37.298  -3.720 -23.875  1.00 80.99       B
ATOM   4510  OH  TYR B  38     -37.696  -3.745 -22.559  1.00 80.34       B
ATOM   4511  C   TYR B  38     -33.962  -2.702 -27.547  1.00 79.53       B
ATOM   4512  O   TYR B  38     -33.416  -2.915 -26.468  1.00 77.91       B
ATOM   4513  N   ALA B  39     -33.933  -1.520 -28.151  1.00 79.48       B
ATOM   4514  CA  ALA B  39     -33.284  -0.347 -27.578  1.00 79.42       B
ATOM   4515  CB  ALA B  39     -32.235   0.190 -28.537  1.00 79.49       B
ATOM   4516  C   ALA B  39     -34.405   0.665 -27.394  1.00 78.83       B
ATOM   4517  O   ALA B  39     -35.154   0.931 -28.331  1.00 78.04       B
ATOM   4518  N   THR B  40     -34.537   1.207 -26.186  1.00 78.51       B
ATOM   4519  CA  THR B  40     -35.597   2.171 -25.912  1.00 78.61       B
ATOM   4520  CB  THR B  40     -35.546   2.675 -24.457  1.00 77.00       B
ATOM   4521  OG1 THR B  40     -34.232   3.162 -24.163  1.00 76.98       B
ATOM   4522  CG2 THR B  40     -35.896   1.554 -23.502  1.00 76.09       B
ATOM   4523  C   THR B  40     -35.486   3.359 -26.859  1.00 79.67       B
ATOM   4524  O   THR B  40     -34.384   3.783 -27.217  1.00 80.16       B
ATOM   4525  N   THR B  41     -36.634   3.882 -27.278  1.00 80.14       B
ATOM   4526  CA  THR B  41     -36.674   5.020 -28.191  1.00 80.48       B
ATOM   4527  CB  THR B  41     -37.268   4.609 -29.547  1.00 80.04       B
ATOM   4528  OG1 THR B  41     -38.239   3.569 -29.345  1.00 79.93       B
ATOM   4529  CG2 THR B  41     -36.165   4.145 -30.487  1.00 78.86       B
ATOM   4530  C   THR B  41     -37.510   6.156 -27.616  1.00 81.00       B
ATOM   4531  O   THR B  41     -38.011   6.050 -26.493  1.00 81.77       B
ATOM   4532  N   SER B  42     -37.670   7.229 -28.391  1.00 80.13       B
ATOM   4533  CA  SER B  42     -38.448   8.381 -27.946  1.00 78.97       B
ATOM   4534  CB  SER B  42     -37.948   9.663 -28.619  1.00 78.06       B
ATOM   4535  OG  SER B  42     -38.128   9.613 -30.018  1.00 76.62       B
ATOM   4536  C   SER B  42     -39.930   8.188 -28.242  1.00 78.64       B
ATOM   4537  O   SER B  42     -40.759   9.013 -27.857  1.00 79.47       B
ATOM   4538  N   ARG B  43     -40.263   7.096 -28.922  1.00 77.43       B
ATOM   4539  CA  ARG B  43     -41.652   6.809 -29.251  1.00 75.79       B
ATOM   4540  CB  ARG B  43     -41.714   5.795 -30.403  1.00 76.77       B
ATOM   4541  CG  ARG B  43     -41.015   6.292 -31.674  1.00 77.59       B
ATOM   4542  CD  ARG B  43     -41.226   5.377 -32.886  1.00 78.61       B
ATOM   4543  NE  ARG B  43     -40.139   4.421 -33.113  1.00 78.70       B
ATOM   4544  CZ  ARG B  43     -39.972   3.284 -32.442  1.00 79.93       B
ATOM   4545  NH1 ARG B  43     -40.823   2.936 -31.481  1.00 81.13       B
ATOM   4546  NH2 ARG B  43     -38.954   2.485 -32.741  1.00 79.11       B
ATOM   4547  C   ARG B  43     -42.405   6.295 -28.013  1.00 74.10       B
ATOM   4548  O   ARG B  43     -43.590   6.591 -27.831  1.00 74.21       B
ATOM   4549  N   SER B  44     -41.708   5.547 -27.156  1.00 71.01       B
ATOM   4550  CA  SER B  44     -42.307   5.008 -25.929  1.00 68.15       B
ATOM   4551  CB  SER B  44     -41.637   3.687 -25.532  1.00 68.16       B
ATOM   4552  OG  SER B  44     -40.265   3.878 -25.217  1.00 66.26       B
ATOM   4553  C   SER B  44     -42.141   6.001 -24.786  1.00 66.20       B
ATOM   4554  O   SER B  44     -42.380   5.673 -23.621  1.00 64.84       B
ATOM   4555  N   ALA B  45     -41.726   7.215 -25.133  1.00 63.66       B
ATOM   4556  CA  ALA B  45     -41.507   8.268 -24.156  1.00 62.02       B
ATOM   4557  CB  ALA B  45     -40.842   9.455 -24.827  1.00 60.91       B
ATOM   4558  C   ALA B  45     -42.794   8.708 -23.457  1.00 61.03       B
ATOM   4559  O   ALA B  45     -42.839   8.813 -22.228  1.00 60.97       B
ATOM   4560  N   SER B  46     -43.839   8.967 -24.236  1.00 59.30       B
ATOM   4561  CA  SER B  46     -45.110   9.395 -23.665  1.00 57.35       B
ATOM   4562  CB  SER B  46     -46.188   9.445 -24.750  1.00 56.92       B
ATOM   4563  OG  SER B  46     -47.460   9.729 -24.189  1.00 56.23       B
ATOM   4564  C   SER B  46     -45.536   8.426 -22.569  1.00 56.52       B
ATOM   4565  O   SER B  46     -46.071   8.821 -21.532  1.00 54.81       B
ATOM   4566  N   LEU B  47     -45.279   7.149 -22.815  1.00 56.07       B
ATOM   4567  CA  LEU B  47     -45.632   6.089 -21.889  1.00 56.02       B
ATOM   4568  CB  LEU B  47     -45.252   4.754 -22.520  1.00 59.41       B
ATOM   4569  CG  LEU B  47     -45.580   3.468 -21.774  1.00 63.18       B
ATOM   4570  CD1 LEU B  47     -46.972   3.556 -21.148  1.00 63.49       B
ATOM   4571  CD2 LEU B  47     -45.474   2.301 -22.759  1.00 63.75       B
ATOM   4572  C   LEU B  47     -44.953   6.265 -20.532  1.00 54.99       B
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ATOM   4573  O   LEU B  47     -45.550   5.998 -19.482  1.00 53.39      B
ATOM   4574  N   ARG B  48     -43.707   6.729 -20.565  1.00 52.99      B
ATOM   4575  CA  ARG B  48     -42.924   6.957 -19.356  1.00 51.51      B
ATOM   4576  CB  ARG B  48     -41.434   6.964 -19.725  1.00 50.57      B
ATOM   4577  CG  ARG B  48     -40.501   7.759 -18.824  1.00 50.31      B
ATOM   4578  CD  ARG B  48     -40.458   7.284 -17.380  1.00 52.11      B
ATOM   4579  NE  ARG B  48     -40.347   5.838 -17.244  1.00 54.01      B
ATOM   4580  CZ  ARG B  48     -39.916   5.213 -16.149  1.00 55.96      B
ATOM   4581  NH1 ARG B  48     -39.530   5.899 -15.077  1.00 52.75      B
ATOM   4582  NH2 ARG B  48     -39.900   3.886 -16.119  1.00 58.90      B
ATOM   4583  C   ARG B  48     -43.340   8.255 -18.640  1.00 51.02      B
ATOM   4584  O   ARG B  48     -43.413   8.292 -17.405  1.00 50.80      B
ATOM   4585  N   GLN B  49     -43.630   9.302 -19.414  1.00 48.40      B
ATOM   4586  CA  GLN B  49     -44.051  10.591 -18.859  1.00 47.31      B
ATOM   4587  CB  GLN B  49     -44.378  11.569 -19.983  1.00 46.24      B
ATOM   4588  CG  GLN B  49     -43.253  11.766 -20.967  1.00 47.59      B
ATOM   4589  CD  GLN B  49     -43.633  12.680 -22.111  1.00 47.89      B
ATOM   4590  OE1 GLN B  49     -43.836  13.882 -21.929  1.00 47.81      B
ATOM   4591  NE2 GLN B  49     -43.737  12.109 -23.304  1.00 48.98      B
ATOM   4592  C   GLN B  49     -45.292  10.404 -18.003  1.00 47.30      B
ATOM   4593  O   GLN B  49     -45.428  10.979 -16.922  1.00 46.44      B
ATOM   4594  N   LYS B  50     -46.202   9.596 -18.524  1.00 47.73      B
ATOM   4595  CA  LYS B  50     -47.451   9.277 -17.861  1.00 48.15      B
ATOM   4596  CB  LYS B  50     -48.204   8.231 -18.702  1.00 49.88      B
ATOM   4597  CG  LYS B  50     -49.715   8.153 -18.510  1.00 50.13      B
ATOM   4598  CD  LYS B  50     -50.118   7.364 -17.279  1.00 50.49      B
ATOM   4599  CE  LYS B  50     -51.621   7.103 -17.286  1.00 52.02      B
ATOM   4600  NZ  LYS B  50     -52.047   6.167 -16.199  1.00 54.96      B
ATOM   4601  C   LYS B  50     -47.115   8.712 -16.487  1.00 47.73      B
ATOM   4602  O   LYS B  50     -47.757   9.045 -15.490  1.00 48.24      B
ATOM   4603  N   LYS B  51     -46.083   7.873 -16.442  1.00 46.84      B
ATOM   4604  CA  LYS B  51     -45.681   7.232 -15.200  1.00 45.81      B
ATOM   4605  CB  LYS B  51     -44.764   6.036 -15.477  1.00 47.82      B
ATOM   4606  CG  LYS B  51     -44.404   5.302 -14.192  1.00 50.78      B
ATOM   4607  CD  LYS B  51     -43.637   4.017 -14.413  1.00 53.36      B
ATOM   4608  CE  LYS B  51     -43.577   3.221 -13.107  1.00 54.67      B
ATOM   4609  NZ  LYS B  51     -42.683   2.033 -13.195  1.00 55.38      B
ATOM   4610  C   LYS B  51     -45.000   8.113 -14.171  1.00 43.53      B
ATOM   4611  O   LYS B  51     -45.189   7.914 -12.969  1.00 43.25      B
ATOM   4612  N   VAL B  52     -44.198   9.068 -14.632  1.00 40.96      B
ATOM   4613  CA  VAL B  52     -43.466   9.945 -13.724  1.00 38.53      B
ATOM   4614  CB  VAL B  52     -42.084  10.270 -14.287  1.00 37.13      B
ATOM   4615  CG1 VAL B  52     -41.326   8.983 -14.537  1.00 35.79      B
ATOM   4616  CG2 VAL B  52     -42.214  11.072 -15.562  1.00 34.04      B
ATOM   4617  C   VAL B  52     -44.175  11.251 -13.404  1.00 38.49      B
ATOM   4618  O   VAL B  52     -43.690  12.054 -12.606  1.00 38.43      B
ATOM   4619  N   THR B  53     -45.331  11.454 -14.021  1.00 37.38      B
ATOM   4620  CA  THR B  53     -46.098  12.669 -13.801  1.00 36.37      B
ATOM   4621  CB  THR B  53     -46.754  13.149 -15.108  1.00 34.36      B
ATOM   4622  OG1 THR B  53     -45.750  13.294 -16.118  1.00 33.78      B
ATOM   4623  CG2 THR B  53     -47.450  14.482 -14.895  1.00 32.23      B
ATOM   4624  C   THR B  53     -47.184  12.489 -12.749  1.00 35.93      B
ATOM   4625  O   THR B  53     -48.191  11.827 -12.979  1.00 36.89      B
ATOM   4626  N   PHE B  54     -46.981  13.090 -11.591  1.00 35.22      B
ATOM   4627  CA  PHE B  54     -47.969  12.987 -10.540  1.00 35.70      B
ATOM   4628  CB  PHE B  54     -47.941  11.581  -9.924  1.00 34.51      B
ATOM   4629  CG  PHE B  54     -46.626  11.205  -9.299  1.00 36.40      B
ATOM   4630  CD1 PHE B  54     -46.345  11.534  -7.978  1.00 35.17      B
ATOM   4631  CD2 PHE B  54     -45.664  10.516 -10.033  1.00 37.51      B
ATOM   4632  CE1 PHE B  54     -45.131  11.176  -7.390  1.00 34.51      B
ATOM   4633  CE2 PHE B  54     -44.452  10.157  -9.455  1.00 36.98      B
ATOM   4634  CZ  PHE B  54     -44.187  10.490  -8.126  1.00 35.53      B
ATOM   4635  C   PHE B  54     -47.716  14.055  -9.492  1.00 36.19      B
ATOM   4636  O   PHE B  54     -46.690  14.728  -9.515  1.00 36.35      B
ATOM   4637  N   ASP B  55     -48.664  14.222  -8.582  1.00 37.76      B
ATOM   4638  CA  ASP B  55     -48.524  15.219  -7.538  1.00 38.61      B
ATOM   4639  CB  ASP B  55     -49.890  15.818  -7.206  1.00 39.14      B
ATOM   4640  CG  ASP B  55     -49.795  17.020  -6.287  1.00 41.38      B
ATOM   4641  OD1 ASP B  55     -48.670  17.415  -5.914  1.00 42.50      B
ATOM   4642  OD2 ASP B  55     -50.854  17.575  -5.935  1.00 43.16      B
ATOM   4643  C   ASP B  55     -47.907  14.595  -6.291  1.00 38.29      B
ATOM   4644  O   ASP B  55     -48.344  13.536  -5.848  1.00 37.30      B
ATOM   4645  N   ARG B  56     -46.873  15.245  -5.755  1.00 37.62      B
ATOM   4646  CA  ARG B  56     -46.207  14.776  -4.548  1.00 37.08      B
ATOM   4647  CB  ARG B  56     -44.713  15.096  -4.566  1.00 34.39      B
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ATOM   4648  CG  ARG B  56     -43.887  14.328  -5.579  1.00 35.01      B
ATOM   4649  CD  ARG B  56     -44.161  14.792  -7.002  1.00 33.69      B
ATOM   4650  NE  ARG B  56     -43.933  16.227  -7.191  1.00 31.21      B
ATOM   4651  CZ  ARG B  56     -42.739  16.805  -7.248  1.00 28.66      B
ATOM   4652  NH1 ARG B  56     -41.635  16.080  -7.134  1.00 26.02      B
ATOM   4653  NH2 ARG B  56     -42.654  18.117  -7.427  1.00 29.01      B
ATOM   4654  C   ARG B  56     -46.842  15.522  -3.392  1.00 38.91      B
ATOM   4655  O   ARG B  56     -46.920  16.746  -3.419  1.00 40.25      B
ATOM   4656  N   LEU B  57     -47.306  14.790  -2.383  1.00 40.34      B
ATOM   4657  CA  LEU B  57     -47.920  15.417  -1.222  1.00 41.47      B
ATOM   4658  CB  LEU B  57     -49.406  15.084  -1.181  1.00 43.10      B
ATOM   4659  CG  LEU B  57     -50.291  16.223  -0.676  1.00 45.92      B
ATOM   4660  CD1 LEU B  57     -50.089  17.466  -1.537  1.00 47.23      B
ATOM   4661  CD2 LEU B  57     -51.745  15.779  -0.716  1.00 47.27      B
ATOM   4662  C   LEU B  57     -47.194  14.895   0.020  1.00 41.48      B
ATOM   4663  O   LEU B  57     -47.610  13.933   0.661  1.00 44.03      B
ATOM   4664  N   GLN B  58     -46.106  15.573   0.349  1.00 39.60      B
ATOM   4665  CA  GLN B  58     -45.216  15.219   1.445  1.00 37.90      B
ATOM   4666  CB  GLN B  58     -43.827  15.718   1.039  1.00 36.46      B
ATOM   4667  CG  GLN B  58     -42.659  15.321   1.869  1.00 34.45      B
ATOM   4668  CD  GLN B  58     -41.378  15.897   1.290  1.00 36.37      B
ATOM   4669  OE1 GLN B  58     -41.310  17.086   0.959  1.00 34.51      B
ATOM   4670  NE2 GLN B  58     -40.356  15.062   1.167  1.00 36.18      B
ATOM   4671  C   GLN B  58     -45.611  15.748   2.830  1.00 36.87      B
ATOM   4672  O   GLN B  58     -46.129  16.850   2.959  1.00 36.69      B
ATOM   4673  N   VAL B  59     -45.365  14.944   3.862  1.00 36.67      B
ATOM   4674  CA  VAL B  59     -45.659  15.325   5.247  1.00 37.33      B
ATOM   4675  CB  VAL B  59     -46.974  14.689   5.784  1.00 36.49      B
ATOM   4676  CG1 VAL B  59     -47.163  15.082   7.235  1.00 33.36      B
ATOM   4677  CG2 VAL B  59     -48.174  15.141   4.964  1.00 35.36      B
ATOM   4678  C   VAL B  59     -44.527  14.831   6.146  1.00 37.87      B
ATOM   4679  O   VAL B  59     -44.363  13.627   6.335  1.00 38.99      B
ATOM   4680  N   LEU B  60     -43.763  15.754   6.715  1.00 37.58      B
ATOM   4681  CA  LEU B  60     -42.644  15.385   7.582  1.00 39.44      B
ATOM   4682  CB  LEU B  60     -41.487  16.375   7.361  1.00 37.47      B
ATOM   4683  CG  LEU B  60     -41.192  16.673   5.881  1.00 37.81      B
ATOM   4684  CD1 LEU B  60     -40.483  18.008   5.734  1.00 33.80      B
ATOM   4685  CD2 LEU B  60     -40.367  15.537   5.285  1.00 36.21      B
ATOM   4686  C   LEU B  60     -43.035  15.344   9.070  1.00 40.41      B
ATOM   4687  O   LEU B  60     -43.971  16.022   9.492  1.00 41.24      B
ATOM   4688  N   ASP B  61     -42.318  14.542   9.858  1.00 41.17      B
ATOM   4689  CA  ASP B  61     -42.580  14.428  11.291  1.00 41.17      B
ATOM   4690  CB  ASP B  61     -43.121  13.043  11.633  1.00 39.10      B
ATOM   4691  CG  ASP B  61     -42.285  11.931  11.042  1.00 40.41      B
ATOM   4692  OD1 ASP B  61     -41.065  12.134  10.865  1.00 40.08      B
ATOM   4693  OD2 ASP B  61     -42.849  10.849  10.764  1.00 39.99      B
ATOM   4694  C   ASP B  61     -41.309  14.688  12.097  1.00 42.70      B
ATOM   4695  O   ASP B  61     -40.360  15.284  11.589  1.00 43.03      B
ATOM   4696  N   ASP B  62     -41.289  14.236  13.350  1.00 42.74      B
ATOM   4697  CA  ASP B  62     -40.126  14.449  14.199  1.00 41.58      B
ATOM   4698  CB  ASP B  62     -40.496  14.298  15.672  1.00 42.88      B
ATOM   4699  CG  ASP B  62     -41.237  15.501  16.215  1.00 45.99      B
ATOM   4700  OD1 ASP B  62     -41.149  16.582  15.597  1.00 48.16      B
ATOM   4701  OD2 ASP B  62     -41.896  15.371  17.273  1.00 48.69      B
ATOM   4702  C   ASP B  62     -38.950  13.532  13.891  1.00 41.64      B
ATOM   4703  O   ASP B  62     -37.794  13.919  14.083  1.00 41.74      B
ATOM   4704  N   HIS B  63     -39.228  12.317  13.431  1.00 40.98      B
ATOM   4705  CA  HIS B  63     -38.147  11.386  13.128  1.00 40.40      B
ATOM   4706  CB  HIS B  63     -38.692  10.007  12.766  1.00 42.71      B
ATOM   4707  CG  HIS B  63     -39.162   9.217  13.948  1.00 47.45      B
ATOM   4708  CD2 HIS B  63     -40.350   8.623  14.210  1.00 48.50      B
ATOM   4709  ND1 HIS B  63     -38.354   8.950  15.032  1.00 49.26      B
ATOM   4710  CE1 HIS B  63     -39.024   8.225  15.910  1.00 49.15      B
ATOM   4711  NE2 HIS B  63     -40.237   8.013  15.436  1.00 49.60      B
ATOM   4712  C   HIS B  63     -37.327  11.922  11.980  1.00 39.44      B
ATOM   4713  O   HIS B  63     -36.106  11.791  11.957  1.00 38.87      B
ATOM   4714  N   TYR B  64     -38.012  12.536  11.027  1.00 38.44      B
ATOM   4715  CA  TYR B  64     -37.355  13.098   9.865  1.00 38.25      B
ATOM   4716  CB  TYR B  64     -38.404  13.607   8.872  1.00 38.64      B
ATOM   4717  CG  TYR B  64     -37.842  14.311   7.657  1.00 39.41      B
ATOM   4718  CD1 TYR B  64     -37.423  13.591   6.538  1.00 39.70      B
ATOM   4719  CE1 TYR B  64     -36.922  14.243   5.409  1.00 40.19      B
ATOM   4720  CD2 TYR B  64     -37.739  15.704   7.620  1.00 39.10      B
ATOM   4721  CE2 TYR B  64     -37.234  16.364   6.497  1.00 39.33      B
ATOM   4722  CZ  TYR B  64     -36.830  15.630   5.395  1.00 38.96      B
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ATOM   4723  OH  TYR B  64     -36.346  16.277   4.281  1.00 38.55      B
ATOM   4724  C   TYR B  64     -36.464  14.244  10.316  1.00 37.87      B
ATOM   4725  O   TYR B  64     -35.264  14.268  10.023  1.00 37.28      B
ATOM   4726  N   ARG B  65     -37.060  15.185  11.041  1.00 36.70      B
ATOM   4727  CA  ARG B  65     -36.336  16.346  11.525  1.00 37.26      B
ATOM   4728  CB  ARG B  65     -37.302  17.292  12.241  1.00 38.54      B
ATOM   4729  CG  ARG B  65     -38.243  18.017  11.270  1.00 41.36      B
ATOM   4730  CD  ARG B  65     -39.095  19.045  11.973  1.00 44.39      B
ATOM   4731  NE  ARG B  65     -40.149  18.414  12.759  1.00 47.77      B
ATOM   4732  CZ  ARG B  65     -41.340  18.083  12.272  1.00 48.25      B
ATOM   4733  NH1 ARG B  65     -41.623  18.331  11.000  1.00 49.09      B
ATOM   4734  NH2 ARG B  65     -42.242  17.500  13.054  1.00 47.38      B
ATOM   4735  C   ARG B  65     -35.180  15.947  12.425  1.00 37.36      B
ATOM   4736  O   ARG B  65     -34.139  16.613  12.458  1.00 37.78      B
ATOM   4737  N   ASP B  66     -35.365  14.845  13.142  1.00 37.05      B
ATOM   4738  CA  ASP B  66     -34.339  14.325  14.033  1.00 37.17      B
ATOM   4739  CB  ASP B  66     -34.886  13.153  14.851  1.00 39.65      B
ATOM   4740  CG  ASP B  66     -35.628  13.591  16.088  1.00 41.30      B
ATOM   4741  OD1 ASP B  66     -35.970  14.794  16.187  1.00 40.71      B
ATOM   4742  OD2 ASP B  66     -35.870  12.713  16.954  1.00 41.01      B
ATOM   4743  C   ASP B  66     -33.125  13.834  13.247  1.00 36.44      B
ATOM   4744  O   ASP B  66     -31.984  14.185  13.566  1.00 36.08      B
ATOM   4745  N   VAL B  67     -33.378  13.008  12.229  1.00 33.41      B
ATOM   4746  CA  VAL B  67     -32.307  12.438  11.420  1.00 30.49      B
ATOM   4747  CB  VAL B  67     -32.848  11.338  10.463  1.00 29.81      B
ATOM   4748  CG1 VAL B  67     -31.762  10.893   9.503  1.00 26.59      B
ATOM   4749  CG2 VAL B  67     -33.335  10.139  11.269  1.00 28.56      B
ATOM   4750  C   VAL B  67     -31.563  13.491  10.613  1.00 30.10      B
ATOM   4751  O   VAL B  67     -30.348  13.376  10.395  1.00 27.51      B
ATOM   4752  N   LEU B  68     -32.291  14.518  10.180  1.00 29.31      B
ATOM   4753  CA  LEU B  68     -31.686  15.581   9.394  1.00 28.33      B
ATOM   4754  CB  LEU B  68     -32.750  16.555   8.898  1.00 24.70      B
ATOM   4755  CG  LEU B  68     -32.300  17.800   8.129  1.00 23.34      B
ATOM   4756  CD1 LEU B  68     -31.279  17.454   7.068  1.00 22.45      B
ATOM   4757  CD2 LEU B  68     -33.523  18.455   7.509  1.00 18.53      B
ATOM   4758  C   LEU B  68     -30.658  16.298  10.239  1.00 29.56      B
ATOM   4759  O   LEU B  68     -29.512  16.461   9.829  1.00 31.78      B
ATOM   4760  N   LYS B  69     -31.054  16.710  11.431  1.00 29.69      B
ATOM   4761  CA  LYS B  69     -30.116  17.397  12.304  1.00 30.21      B
ATOM   4762  CB  LYS B  69     -30.781  17.748  13.632  1.00 29.25      B
ATOM   4763  CG  LYS B  69     -31.895  18.733  13.519  1.00 28.53      B
ATOM   4764  CD  LYS B  69     -32.355  19.096  14.890  1.00 31.22      B
ATOM   4765  CE  LYS B  69     -33.527  20.040  14.845  1.00 34.27      B
ATOM   4766  NZ  LYS B  69     -34.050  20.255  16.217  1.00 37.17      B
ATOM   4767  C   LYS B  69     -28.881  16.544  12.575  1.00 29.84      B
ATOM   4768  O   LYS B  69     -27.782  17.064  12.728  1.00 29.65      B
ATOM   4769  N   GLU B  70     -29.064  15.231  12.643  1.00 32.38      B
ATOM   4770  CA  GLU B  70     -27.949  14.325  12.917  1.00 33.35      B
ATOM   4771  CB  GLU B  70     -28.470  12.916  13.229  1.00 33.75      B
ATOM   4772  CG  GLU B  70     -29.062  12.745  14.644  1.00 34.26      B
ATOM   4773  CD  GLU B  70     -29.812  11.411  14.838  1.00 38.07      B
ATOM   4774  OE1 GLU B  70     -29.435  10.403  14.192  1.00 36.10      B
ATOM   4775  OE2 GLU B  70     -30.775  11.368  15.647  1.00 38.45      B
ATOM   4776  C   GLU B  70     -27.014  14.296  11.727  1.00 33.26      B
ATOM   4777  O   GLU B  70     -25.795  14.321  11.877  1.00 33.58      B
ATOM   4778  N   MET B  71     -27.596  14.264  10.536  1.00 34.29      B
ATOM   4779  CA  MET B  71     -26.807  14.239   9.313  1.00 34.32      B
ATOM   4780  CB  MET B  71     -27.712  13.990   8.112  1.00 34.83      B
ATOM   4781  CG  MET B  71     -28.342  12.616   8.072  1.00 33.13      B
ATOM   4782  SD  MET B  71     -29.640  12.616   6.842  1.00 36.62      B
ATOM   4783  CE  MET B  71     -28.754  12.221   5.416  1.00 31.48      B
ATOM   4784  C   MET B  71     -26.080  15.563   9.136  1.00 34.22      B
ATOM   4785  O   MET B  71     -24.948  15.604   8.656  1.00 34.60      B
ATOM   4786  N   LYS B  72     -26.734  16.649   9.526  1.00 33.11      B
ATOM   4787  CA  LYS B  72     -26.133  17.966   9.395  1.00 32.22      B
ATOM   4788  CB  LYS B  72     -27.180  19.050   9.638  1.00 30.28      B
ATOM   4789  CG  LYS B  72     -28.224  19.123   8.538  1.00 28.25      B
ATOM   4790  CD  LYS B  72     -29.216  20.256   8.757  1.00 27.66      B
ATOM   4791  CE  LYS B  72     -28.540  21.605   8.711  1.00 25.55      B
ATOM   4792  NZ  LYS B  72     -29.523  22.726   8.692  1.00 27.01      B
ATOM   4793  C   LYS B  72     -24.932  18.170  10.310  1.00 32.14      B
ATOM   4794  O   LYS B  72     -23.942  18.771   9.900  1.00 31.52      B
ATOM   4795  N   ALA B  73     -24.998  17.664  11.536  1.00 32.69      B
ATOM   4796  CA  ALA B  73     -23.870  17.816  12.448  1.00 32.80      B
ATOM   4797  CB  ALA B  73     -24.176  17.170  13.779  1.00 28.71      B
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ATOM   4798  C   ALA B  73     -22.635  17.181  11.828  1.00 34.18      B
ATOM   4799  O   ALA B  73     -21.534  17.729  11.917  1.00 36.35      B
ATOM   4800  N   LYS B  74     -22.823  16.038  11.177  1.00 34.60      B
ATOM   4801  CA  LYS B  74     -21.705  15.347  10.562  1.00 34.94      B
ATOM   4802  CB  LYS B  74     -22.099  13.919  10.174  1.00 36.45      B
ATOM   4803  CG  LYS B  74     -22.366  13.002  11.380  1.00 40.08      B
ATOM   4804  CD  LYS B  74     -22.231  11.510  11.008  1.00 44.02      B
ATOM   4805  CE  LYS B  74     -20.762  11.041  10.923  1.00 46.69      B
ATOM   4806  NZ  LYS B  74     -20.582   9.755  10.146  1.00 46.93      B
ATOM   4807  C   LYS B  74     -21.185  16.126   9.365  1.00 35.60      B
ATOM   4808  O   LYS B  74     -19.973  16.207   9.158  1.00 36.30      B
ATOM   4809  N   ALA B  75     -22.096  16.732   8.602  1.00 35.72      B
ATOM   4810  CA  ALA B  75     -21.713  17.525   7.427  1.00 35.31      B
ATOM   4811  CB  ALA B  75     -22.963  17.997   6.665  1.00 34.86      B
ATOM   4812  C   ALA B  75     -20.880  18.732   7.854  1.00 34.58      B
ATOM   4813  O   ALA B  75     -20.035  19.214   7.097  1.00 34.08      B
ATOM   4814  N   SER B  76     -21.128  19.196   9.078  1.00 33.73      B
ATOM   4815  CA  SER B  76     -20.443  20.345   9.656  1.00 34.06      B
ATOM   4816  CB  SER B  76     -20.918  20.580  11.082  1.00 36.51      B
ATOM   4817  OG  SER B  76     -22.257  21.032  11.088  1.00 44.07      B
ATOM   4818  C   SER B  76     -18.940  20.220   9.681  1.00 33.19      B
ATOM   4819  O   SER B  76     -18.237  21.227   9.638  1.00 30.80      B
ATOM   4820  N   THR B  77     -18.456  18.983   9.758  1.00 32.61      B
ATOM   4821  CA  THR B  77     -17.026  18.708   9.812  1.00 32.32      B
ATOM   4822  CB  THR B  77     -16.749  17.237  10.234  1.00 33.21      B
ATOM   4823  OG1 THR B  77     -16.979  16.357   9.125  1.00 33.77      B
ATOM   4824  CG2 THR B  77     -17.670  16.825  11.370  1.00 31.41      B
ATOM   4825  C   THR B  77     -16.338  18.957   8.477  1.00 32.23      B
ATOM   4826  O   THR B  77     -15.171  19.338   8.438  1.00 33.54      B
ATOM   4827  N   VAL B  78     -17.077  18.763   7.390  1.00 31.88      B
ATOM   4828  CA  VAL B  78     -16.559  18.916   6.029  1.00 31.09      B
ATOM   4829  CB  VAL B  78     -17.610  18.417   4.996  1.00 29.21      B
ATOM   4830  CG1 VAL B  78     -17.059  18.511   3.600  1.00 24.52      B
ATOM   4831  CG2 VAL B  78     -18.021  16.996   5.313  1.00 26.49      B
ATOM   4832  C   VAL B  78     -16.115  20.320   5.606  1.00 32.14      B
ATOM   4833  O   VAL B  78     -16.739  21.314   5.959  1.00 31.58      B
ATOM   4834  N   LYS B  79     -15.020  20.372   4.853  1.00 33.63      B
ATOM   4835  CA  LYS B  79     -14.480  21.614   4.302  1.00 37.02      B
ATOM   4836  CB  LYS B  79     -13.155  22.022   4.957  1.00 38.41      B
ATOM   4837  CG  LYS B  79     -12.485  23.183   4.204  1.00 41.36      B
ATOM   4838  CD  LYS B  79     -11.297  23.777   4.942  1.00 45.95      B
ATOM   4839  CE  LYS B  79     -10.697  24.960   4.172  1.00 47.38      B
ATOM   4840  NZ  LYS B  79      -9.660  25.699   4.968  1.00 48.01      B
ATOM   4841  C   LYS B  79     -14.227  21.353   2.820  1.00 37.17      B
ATOM   4842  O   LYS B  79     -13.202  20.792   2.448  1.00 37.62      B
ATOM   4843  N   ALA B  80     -15.163  21.766   1.980  1.00 37.18      B
ATOM   4844  CA  ALA B  80     -15.046  21.540   0.554  1.00 37.26      B
ATOM   4845  CB  ALA B  80     -16.422  21.405  -0.059  1.00 36.48      B
ATOM   4846  C   ALA B  80     -14.302  22.673  -0.095  1.00 37.20      B
ATOM   4847  O   ALA B  80     -14.386  23.804   0.363  1.00 37.54      B
ATOM   4848  N   LYS B  81     -13.588  22.364  -1.170  1.00 38.16      B
ATOM   4849  CA  LYS B  81     -12.822  23.363  -1.888  1.00 40.87      B
ATOM   4850  CB  LYS B  81     -11.404  22.864  -2.133  1.00 46.89      B
ATOM   4851  CG  LYS B  81     -10.520  22.858  -0.885  1.00 56.40      B
ATOM   4852  CD  LYS B  81      -9.222  22.082  -1.146  1.00 62.47      B
ATOM   4853  CE  LYS B  81      -8.301  22.071   0.077  1.00 65.66      B
ATOM   4854  NZ  LYS B  81      -7.093  21.212  -0.144  1.00 67.08      B
ATOM   4855  C   LYS B  81     -13.454  23.746  -3.212  1.00 40.14      B
ATOM   4856  O   LYS B  81     -14.275  23.028  -3.765  1.00 40.05      B
ATOM   4857  N   LEU B  82     -13.055  24.905  -3.707  1.00 40.28      B
ATOM   4858  CA  LEU B  82     -13.553  25.430  -4.966  1.00 38.36      B
ATOM   4859  CB  LEU B  82     -13.571  26.961  -4.901  1.00 35.96      B
ATOM   4860  CG  LEU B  82     -14.327  27.724  -5.983  1.00 33.09      B
ATOM   4861  CD1 LEU B  82     -15.742  27.225  -6.042  1.00 33.60      B
ATOM   4862  CD2 LEU B  82     -14.308  29.202  -5.675  1.00 30.72      B
ATOM   4863  C   LEU B  82     -12.609  24.961  -6.058  1.00 38.01      B
ATOM   4864  O   LEU B  82     -11.411  25.234  -6.005  1.00 38.58      B
ATOM   4865  N   LEU B  83     -13.144  24.246  -7.038  1.00 38.67      B
ATOM   4866  CA  LEU B  83     -12.334  23.746  -8.138  1.00 39.08      B
ATOM   4867  CB  LEU B  83     -13.095  22.668  -8.901  1.00 37.33      B
ATOM   4868  CG  LEU B  83     -12.613  21.231  -8.723  1.00 37.37      B
ATOM   4869  CD1 LEU B  83     -12.691  20.835  -7.276  1.00 37.74      B
ATOM   4870  CD2 LEU B  83     -13.465  20.309  -9.565  1.00 37.16      B
ATOM   4871  C   LEU B  83     -11.938  24.858  -9.098  1.00 40.50      B
ATOM   4872  O   LEU B  83     -12.684  25.806  -9.309  1.00 40.66      B
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ATOM   4873  N   SER B  84     -10.748  24.747  -9.670  1.00 42.44      B
ATOM   4874  CA  SER B  84     -10.280  25.741 -10.629  1.00 43.66      B
ATOM   4875  CB  SER B  84      -8.784  25.572 -10.863  1.00 44.30      B
ATOM   4876  OG  SER B  84      -8.521  24.280 -11.387  1.00 42.17      B
ATOM   4877  C   SER B  84     -11.012  25.452 -11.930  1.00 44.08      B
ATOM   4878  O   SER B  84     -11.405  24.307 -12.173  1.00 43.43      B
ATOM   4879  N   ILE B  85     -11.198  26.470 -12.766  1.00 44.90      B
ATOM   4880  CA  ILE B  85     -11.869  26.257 -14.045  1.00 46.35      B
ATOM   4881  CB  ILE B  85     -11.804  27.496 -14.948  1.00 45.37      B
ATOM   4882  CG2 ILE B  85     -12.174  27.123 -16.370  1.00 43.99      B
ATOM   4883  CG1 ILE B  85     -12.756  28.569 -14.425  1.00 47.35      B
ATOM   4884  CD1 ILE B  85     -12.746  29.856 -15.236  1.00 48.59      B
ATOM   4885  C   ILE B  85     -11.152  25.121 -14.756  1.00 48.78      B
ATOM   4886  O   ILE B  85     -11.777  24.189 -15.270  1.00 48.53      B
ATOM   4887  N   GLU B  86      -9.827  25.199 -14.770  1.00 50.49      B
ATOM   4888  CA  GLU B  86      -9.037  24.176 -15.414  1.00 51.89      B
ATOM   4889  CB  GLU B  86      -7.549  24.442 -15.210  1.00 54.28      B
ATOM   4890  CG  GLU B  86      -6.674  23.607 -16.130  1.00 59.87      B
ATOM   4891  CD  GLU B  86      -5.187  23.816 -15.904  1.00 62.17      B
ATOM   4892  OE1 GLU B  86      -4.709  24.961 -16.056  1.00 62.62      B
ATOM   4893  OE2 GLU B  86      -4.496  22.827 -15.579  1.00 64.10      B
ATOM   4894  C   GLU B  86      -9.406  22.811 -14.853  1.00 51.77      B
ATOM   4895  O   GLU B  86      -9.713  21.892 -15.609  1.00 53.45      B
ATOM   4896  N   GLU B  87      -9.395  22.675 -13.531  1.00 52.21      B
ATOM   4897  CA  GLU B  87      -9.727  21.393 -12.903  1.00 52.36      B
ATOM   4898  CB  GLU B  87      -9.706  21.506 -11.384  1.00 54.76      B
ATOM   4899  CG  GLU B  87      -8.338  21.416 -10.767  1.00 58.44      B
ATOM   4900  CD  GLU B  87      -8.402  21.510  -9.262  1.00 60.42      B
ATOM   4901  OE1 GLU B  87      -8.792  22.589  -8.748  1.00 60.58      B
ATOM   4902  OE2 GLU B  87      -8.072  20.499  -8.604  1.00 60.59      B
ATOM   4903  C   GLU B  87     -11.083  20.860 -13.309  1.00 50.79      B
ATOM   4904  O   GLU B  87     -11.241  19.668 -13.559  1.00 50.03      B
ATOM   4905  N   ALA B  88     -12.071  21.745 -13.352  1.00 49.51      B
ATOM   4906  CA  ALA B  88     -13.412  21.331 -13.723  1.00 46.94      B
ATOM   4907  CB  ALA B  88     -14.393  22.461 -13.491  1.00 46.85      B
ATOM   4908  C   ALA B  88     -13.418  20.918 -15.178  1.00 44.87      B
ATOM   4909  O   ALA B  88     -14.084  19.964 -15.552  1.00 45.14      B
ATOM   4910  N   CYS B  89     -12.664  21.637 -15.999  1.00 44.26      B
ATOM   4911  CA  CYS B  89     -12.604  21.326 -17.414  1.00 43.59      B
ATOM   4912  CB  CYS B  89     -11.711  22.336 -18.138  1.00 42.63      B
ATOM   4913  SG  CYS B  89     -12.550  23.888 -18.630  1.00 41.52      B
ATOM   4914  C   CYS B  89     -12.103  19.908 -17.649  1.00 44.88      B
ATOM   4915  O   CYS B  89     -12.681  19.160 -18.441  1.00 44.95      B
ATOM   4916  N   LYS B  90     -11.045  19.531 -16.939  1.00 46.90      B
ATOM   4917  CA  LYS B  90     -10.452  18.204 -17.083  1.00 48.53      B
ATOM   4918  CB  LYS B  90      -9.166  18.113 -16.267  1.00 50.42      B
ATOM   4919  CG  LYS B  90      -8.361  16.863 -16.568  1.00 57.51      B
ATOM   4920  CD  LYS B  90      -7.119  16.740 -15.680  1.00 61.75      B
ATOM   4921  CE  LYS B  90      -6.330  15.469 -15.999  1.00 63.68      B
ATOM   4922  NZ  LYS B  90      -5.210  15.243 -15.038  1.00 64.71      B
ATOM   4923  C   LYS B  90     -11.389  17.059 -16.692  1.00 48.70      B
ATOM   4924  O   LYS B  90     -11.331  15.981 -17.282  1.00 48.92      B
ATOM   4925  N   LEU B  91     -12.243  17.287 -15.698  1.00 48.18      B
ATOM   4926  CA  LEU B  91     -13.190  16.271 -15.246  1.00 47.17      B
ATOM   4927  CB  LEU B  91     -13.868  16.710 -13.951  1.00 48.69      B
ATOM   4928  CG  LEU B  91     -13.157  16.558 -12.608  1.00 50.07      B
ATOM   4929  CD1 LEU B  91     -13.952  17.288 -11.526  1.00 50.96      B
ATOM   4930  CD2 LEU B  91     -13.032  15.086 -12.261  1.00 49.85      B
ATOM   4931  C   LEU B  91     -14.276  15.984 -16.271  1.00 46.99      B
ATOM   4932  O   LEU B  91     -15.051  15.055 -16.100  1.00 47.68      B
ATOM   4933  N   THR B  92     -14.329  16.780 -17.333  1.00 47.48      B
ATOM   4934  CA  THR B  92     -15.341  16.629 -18.381  1.00 47.28      B
ATOM   4935  CB  THR B  92     -15.466  17.919 -19.192  1.00 47.36      B
ATOM   4936  OG1 THR B  92     -15.712  19.012 -18.301  1.00 49.95      B
ATOM   4937  CG2 THR B  92     -16.603  17.807 -20.205  1.00 46.36      B
ATOM   4938  C   THR B  92     -15.126  15.498 -19.388  1.00 47.21      B
ATOM   4939  O   THR B  92     -14.103  15.444 -20.058  1.00 46.98      B
ATOM   4940  N   PRO B  93     -16.107  14.591 -19.523  1.00 47.51      B
ATOM   4941  CD  PRO B  93     -17.355  14.459 -18.750  1.00 47.93      B
ATOM   4942  CA  PRO B  93     -15.968  13.489 -20.478  1.00 46.58      B
ATOM   4943  CB  PRO B  93     -17.323  12.791 -20.396  1.00 47.84      B
ATOM   4944  CG  PRO B  93     -17.713  12.999 -18.969  1.00 48.87      B
ATOM   4945  C   PRO B  93     -15.688  14.039 -21.873  1.00 46.05      B
ATOM   4946  O   PRO B  93     -16.165  15.118 -22.230  1.00 45.20      B
ATOM   4947  N   PRO B  94     -14.904  13.303 -22.675  1.00 46.19      B
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ATOM   4948  CD  PRO B  94     -14.116  12.153 -22.208  1.00 46.35      B
ATOM   4949  CA  PRO B  94     -14.513  13.657 -24.042  1.00 46.67      B
ATOM   4950  CB  PRO B  94     -13.506  12.575 -24.401  1.00 45.76      B
ATOM   4951  CG  PRO B  94     -12.904  12.240 -23.088  1.00 45.92      B
ATOM   4952  C   PRO B  94     -15.646  13.734 -25.054  1.00 47.80      B
ATOM   4953  O   PRO B  94     -15.562  14.493 -26.020  1.00 48.46      B
ATOM   4954  N   HIS B  95     -16.696  12.947 -24.857  1.00 48.40      B
ATOM   4955  CA  HIS B  95     -17.808  12.994 -25.794  1.00 50.12      B
ATOM   4956  CB  HIS B  95     -18.150  11.592 -26.311  1.00 55.33      B
ATOM   4957  CG  HIS B  95     -17.151  11.043 -27.289  1.00 59.98      B
ATOM   4958  CD2 HIS B  95     -17.130  11.059 -28.644  1.00 61.07      B
ATOM   4959  ND1 HIS B  95     -16.000  10.390 -26.895  1.00 59.95      B
ATOM   4960  CE1 HIS B  95     -15.317  10.026 -27.966  1.00 61.68      B
ATOM   4961  NE2 HIS B  95     -15.980  10.420 -29.040  1.00 62.34      B
ATOM   4962  C   HIS B  95     -19.046  13.654 -25.197  1.00 48.68      B
ATOM   4963  O   HIS B  95     -20.139  13.586 -25.769  1.00 47.51      B
ATOM   4964  N   SER B  96     -18.863  14.298 -24.046  1.00 46.78      B
ATOM   4965  CA  SER B  96     -19.946  15.003 -23.368  1.00 44.99      B
ATOM   4966  CB  SER B  96     -19.356  15.849 -22.239  1.00 44.30      B
ATOM   4967  OG  SER B  96     -20.367  16.497 -21.493  1.00 46.87      B
ATOM   4968  C   SER B  96     -20.688  15.894 -24.384  1.00 43.99      B
ATOM   4969  O   SER B  96     -20.080  16.397 -25.334  1.00 44.57      B
ATOM   4970  N   ALA B  97     -21.993  16.085 -24.196  1.00 41.72      B
ATOM   4971  CA  ALA B  97     -22.787  16.902 -25.123  1.00 39.27      B
ATOM   4972  CB  ALA B  97     -24.223  16.965 -24.667  1.00 36.58      B
ATOM   4973  C   ALA B  97     -22.248  18.316 -25.292  1.00 39.47      B
ATOM   4974  O   ALA B  97     -22.033  19.036 -24.316  1.00 38.64      B
ATOM   4975  N   LYS B  98     -22.039  18.713 -26.542  1.00 39.66      B
ATOM   4976  CA  LYS B  98     -21.525  20.041 -26.836  1.00 39.68      B
ATOM   4977  CB  LYS B  98     -21.352  20.216 -28.342  1.00 40.64      B
ATOM   4978  CG  LYS B  98     -22.654  20.168 -29.128  1.00 41.90      B
ATOM   4979  CD  LYS B  98     -22.426  20.549 -30.585  1.00 43.41      B
ATOM   4980  CE  LYS B  98     -23.736  20.740 -31.324  1.00 43.75      B
ATOM   4981  NZ  LYS B  98     -23.521  21.456 -32.616  1.00 46.64      B
ATOM   4982  C   LYS B  98     -22.458  21.127 -26.307  1.00 39.71      B
ATOM   4983  O   LYS B  98     -23.639  20.878 -26.036  1.00 40.17      B
ATOM   4984  N   SER B  99     -21.920  22.333 -26.164  1.00 37.46      B
ATOM   4985  CA  SER B  99     -22.694  23.464 -25.683  1.00 36.31      B
ATOM   4986  CB  SER B  99     -21.797  24.485 -24.977  1.00 36.50      B
ATOM   4987  OG  SER B  99     -22.417  25.764 -24.942  1.00 28.42      B
ATOM   4988  C   SER B  99     -23.409  24.173 -26.807  1.00 37.42      B
ATOM   4989  O   SER B  99     -22.897  24.293 -27.921  1.00 38.91      B
ATOM   4990  N   LYS B 100     -24.596  24.657 -26.479  1.00 38.44      B
ATOM   4991  CA  LYS B 100     -25.451  25.401 -27.386  1.00 39.59      B
ATOM   4992  CB  LYS B 100     -26.703  25.820 -26.603  1.00 42.48      B
ATOM   4993  CG  LYS B 100     -27.597  26.839 -27.277  1.00 49.24      B
ATOM   4994  CD  LYS B 100     -28.802  27.199 -26.402  1.00 53.58      B
ATOM   4995  CE  LYS B 100     -29.757  28.142 -27.151  1.00 58.21      B
ATOM   4996  NZ  LYS B 100     -30.911  28.631 -26.329  1.00 59.35      B
ATOM   4997  C   LYS B 100     -24.710  26.637 -27.921  1.00 39.05      B
ATOM   4998  O   LYS B 100     -25.113  27.236 -28.920  1.00 37.98      B
ATOM   4999  N   PHE B 101     -23.607  26.986 -27.262  1.00 39.34      B
ATOM   5000  CA  PHE B 101     -22.832  28.173 -27.606  1.00 40.01      B
ATOM   5001  CB  PHE B 101     -22.485  28.924 -26.324  1.00 39.79      B
ATOM   5002  CG  PHE B 101     -23.684  29.447 -25.591  1.00 39.57      B
ATOM   5003  CD1 PHE B 101     -24.332  30.603 -26.024  1.00 39.71      B
ATOM   5004  CD2 PHE B 101     -24.192  28.766 -24.491  1.00 39.23      B
ATOM   5005  CE1 PHE B 101     -25.468  31.081 -25.369  1.00 39.11      B
ATOM   5006  CE2 PHE B 101     -25.325  29.232 -23.830  1.00 39.51      B
ATOM   5007  CZ  PHE B 101     -25.967  30.393 -24.273  1.00 39.68      B
ATOM   5008  C   PHE B 101     -21.574  28.028 -28.447  1.00 40.93      B
ATOM   5009  O   PHE B 101     -20.654  28.830 -28.317  1.00 40.41      B
ATOM   5010  N   GLY B 102     -21.509  27.006 -29.291  1.00 41.59      B
ATOM   5011  CA  GLY B 102     -20.354  26.880 -30.157  1.00 40.21      B
ATOM   5012  C   GLY B 102     -19.070  26.247 -29.666  1.00 40.24      B
ATOM   5013  O   GLY B 102     -17.986  26.653 -30.088  1.00 40.61      B
ATOM   5014  N   TYR B 103     -19.174  25.263 -28.783  1.00 39.54      B
ATOM   5015  CA  TYR B 103     -17.992  24.555 -28.312  1.00 38.72      B
ATOM   5016  CB  TYR B 103     -17.199  25.417 -27.321  1.00 39.63      B
ATOM   5017  CG  TYR B 103     -17.890  25.703 -26.016  1.00 40.43      B
ATOM   5018  CD1 TYR B 103     -17.885  24.766 -24.982  1.00 40.26      B
ATOM   5019  CE1 TYR B 103     -18.543  25.017 -23.788  1.00 40.36      B
ATOM   5020  CD2 TYR B 103     -18.569  26.903 -25.820  1.00 40.33      B
ATOM   5021  CE2 TYR B 103     -19.233  27.165 -24.627  1.00 40.36      B
ATOM   5022  CZ  TYR B 103     -19.218  26.217 -23.618  1.00 40.39      B
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ATOM   5023  OH  TYR B 103     -19.901  26.456 -22.450  1.00 39.51      B
ATOM   5024  C   TYR B 103     -18.408  23.221 -27.695  1.00 39.08      B
ATOM   5025  O   TYR B 103     -19.543  23.064 -27.262  1.00 40.24      B
ATOM   5026  N   GLY B 104     -17.500  22.251 -27.684  1.00 39.13      B
ATOM   5027  CA  GLY B 104     -17.818  20.947 -27.129  1.00 38.24      B
ATOM   5028  C   GLY B 104     -16.816  20.466 -26.098  1.00 39.06      B
ATOM   5029  O   GLY B 104     -15.823  21.136 -25.815  1.00 38.69      B
ATOM   5030  N   ALA B 105     -17.077  19.295 -25.529  1.00 39.70      B
ATOM   5031  CA  ALA B 105     -16.194  18.740 -24.519  1.00 40.86      B
ATOM   5032  CB  ALA B 105     -16.561  17.290 -24.247  1.00 41.15      B
ATOM   5033  C   ALA B 105     -14.756  18.841 -24.997  1.00 42.67      B
ATOM   5034  O   ALA B 105     -13.851  19.125 -24.213  1.00 41.72      B
ATOM   5035  N   LYS B 106     -14.560  18.613 -26.295  1.00 45.42      B
ATOM   5036  CA  LYS B 106     -13.236  18.676 -26.906  1.00 47.68      B
ATOM   5037  CB  LYS B 106     -13.358  18.536 -28.426  1.00 52.13      B
ATOM   5038  CG  LYS B 106     -12.035  18.337 -29.173  1.00 57.52      B
ATOM   5039  CD  LYS B 106     -11.628  16.867 -29.185  1.00 63.62      B
ATOM   5040  CE  LYS B 106     -10.458  16.584 -30.152  1.00 66.23      B
ATOM   5041  NZ  LYS B 106      -9.131  17.060 -29.654  1.00 67.16      B
ATOM   5042  C   LYS B 106     -12.589  20.018 -26.562  1.00 47.26      B
ATOM   5043  O   LYS B 106     -11.454  20.078 -26.080  1.00 46.18      B
ATOM   5044  N   ASP B 107     -13.327  21.097 -26.801  1.00 46.14      B
ATOM   5045  CA  ASP B 107     -12.828  22.438 -26.524  1.00 45.93      B
ATOM   5046  CB  ASP B 107     -13.739  23.463 -27.197  1.00 45.84      B
ATOM   5047  CG  ASP B 107     -13.842  23.244 -28.694  1.00 46.85      B
ATOM   5048  OD1 ASP B 107     -12.803  23.363 -29.386  1.00 47.45      B
ATOM   5049  OD2 ASP B 107     -14.957  22.945 -29.177  1.00 46.25      B
ATOM   5050  C   ASP B 107     -12.678  22.756 -25.031  1.00 45.58      B
ATOM   5051  O   ASP B 107     -11.804  23.532 -24.643  1.00 45.07      B
ATOM   5052  N   VAL B 108     -13.521  22.154 -24.197  1.00 45.13      B
ATOM   5053  CA  VAL B 108     -13.459  22.387 -22.759  1.00 44.84      B
ATOM   5054  CB  VAL B 108     -14.647  21.707 -22.034  1.00 43.84      B
ATOM   5055  CG1 VAL B 108     -14.534  21.926 -20.535  1.00 41.41      B
ATOM   5056  CG2 VAL B 108     -15.970  22.249 -22.562  1.00 41.68      B
ATOM   5057  C   VAL B 108     -12.152  21.836 -22.179  1.00 46.70      B
ATOM   5058  O   VAL B 108     -11.420  22.535 -21.460  1.00 46.24      B
ATOM   5059  N   ARG B 109     -11.863  20.578 -22.507  1.00 46.61      B
ATOM   5060  CA  ARG B 109     -10.665  19.903 -22.027  1.00 47.16      B
ATOM   5061  CB  ARG B 109     -10.666  18.449 -22.496  1.00 46.93      B
ATOM   5062  CG  ARG B 109     -11.916  17.679 -22.096  1.00 48.38      B
ATOM   5063  CD  ARG B 109     -11.909  16.243 -22.614  1.00 49.58      B
ATOM   5064  NE  ARG B 109     -10.881  15.421 -21.978  1.00 50.96      B
ATOM   5065  CZ  ARG B 109     -10.770  15.236 -20.664  1.00 51.98      B
ATOM   5066  NH1 ARG B 109     -11.624  15.817 -19.832  1.00 54.04      B
ATOM   5067  NH2 ARG B 109      -9.807  14.465 -20.178  1.00 52.65      B
ATOM   5068  C   ARG B 109      -9.390  20.590 -22.488  1.00 48.28      B
ATOM   5069  O   ARG B 109      -8.368  20.538 -21.808  1.00 49.98      B
ATOM   5070  N   ASN B 110      -9.440  21.233 -23.647  1.00 48.85      B
ATOM   5071  CA  ASN B 110      -8.263  21.927 -24.145  1.00 49.08      B
ATOM   5072  CB  ASN B 110      -8.239  21.911 -25.673  1.00 50.84      B
ATOM   5073  CG  ASN B 110      -8.038  20.513 -26.239  1.00 53.04      B
ATOM   5074  OD1 ASN B 110      -7.153  19.776 -25.803  1.00 53.45      B
ATOM   5075  ND2 ASN B 110      -8.855  20.147 -27.220  1.00 54.09      B
ATOM   5076  C   ASN B 110      -8.204  23.363 -23.647  1.00 48.76      B
ATOM   5077  O   ASN B 110      -7.245  24.075 -23.929  1.00 50.18      B
ATOM   5078  N   LEU B 111      -9.229  23.781 -22.907  1.00 47.00      B
ATOM   5079  CA  LEU B 111      -9.304  25.135 -22.371  1.00 45.78      B
ATOM   5080  CB  LEU B 111      -8.098  25.428 -21.482  1.00 45.16      B
ATOM   5081  CG  LEU B 111      -7.707  24.373 -20.452  1.00 46.86      B
ATOM   5082  CD1 LEU B 111      -6.519  24.887 -19.652  1.00 47.84      B
ATOM   5083  CD2 LEU B 111      -8.878  24.072 -19.532  1.00 47.28      B
ATOM   5084  C   LEU B 111      -9.368  26.191 -23.473  1.00 45.58      B
ATOM   5085  O   LEU B 111      -8.804  27.274 -23.331  1.00 44.28      B
ATOM   5086  N   SER B 112     -10.057  25.881 -24.564  1.00 46.63      B
ATOM   5087  CA  SER B 112     -10.165  26.819 -25.673  1.00 48.37      B
ATOM   5088  CB  SER B 112     -10.878  26.176 -26.861  1.00 47.88      B
ATOM   5089  OG  SER B 112     -12.281  26.199 -26.680  1.00 47.93      B
ATOM   5090  C   SER B 112     -10.933  28.050 -25.235  1.00 49.71      B
ATOM   5091  O   SER B 112     -12.086  27.961 -24.831  1.00 51.68      B
ATOM   5092  N   SER B 113     -10.281  29.200 -25.323  1.00 50.82      B
ATOM   5093  CA  SER B 113     -10.874  30.474 -24.937  1.00 51.54      B
ATOM   5094  CB  SER B 113     -10.232  31.588 -25.754  1.00 51.85      B
ATOM   5095  OG  SER B 113     -10.013  31.150 -27.082  1.00 55.17      B
ATOM   5096  C   SER B 113     -12.397  30.574 -25.037  1.00 50.63      B
ATOM   5097  O   SER B 113     -13.073  30.737 -24.023  1.00 51.72      B
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ATOM   5098  N   ARG B 114     -12.941  30.477 -26.245  1.00 49.36      B
ATOM   5099  CA  ARG B 114     -14.387  30.583 -26.412  1.00 48.85      B
ATOM   5100  CB  ARG B 114     -14.814  30.054 -27.778  1.00 47.46      B
ATOM   5101  CG  ARG B 114     -16.326  29.989 -27.954  1.00 48.59      B
ATOM   5102  CD  ARG B 114     -16.730  30.234 -29.397  1.00 50.39      B
ATOM   5103  NE  ARG B 114     -18.175  30.175 -29.608  1.00 50.72      B
ATOM   5104  CZ  ARG B 114     -18.809  30.845 -30.569  1.00 51.94      B
ATOM   5105  NH1 ARG B 114     -18.123  31.624 -31.394  1.00 52.44      B
ATOM   5106  NH2 ARG B 114     -20.127  30.742 -30.711  1.00 51.85      B
ATOM   5107  C   ARG B 114     -15.159  29.851 -25.317  1.00 49.29      B
ATOM   5108  O   ARG B 114     -16.149  30.368 -24.791  1.00 50.34      B
ATOM   5109  N   ALA B 115     -14.702  28.653 -24.972  1.00 47.35      B
ATOM   5110  CA  ALA B 115     -15.355  27.865 -23.938  1.00 46.22      B
ATOM   5111  CB  ALA B 115     -14.934  26.413 -24.051  1.00 46.87      B
ATOM   5112  C   ALA B 115     -15.042  28.385 -22.539  1.00 45.35      B
ATOM   5113  O   ALA B 115     -15.952  28.640 -21.746  1.00 46.85      B
ATOM   5114  N   VAL B 116     -13.757  28.533 -22.235  1.00 42.76      B
ATOM   5115  CA  VAL B 116     -13.341  29.013 -20.925  1.00 41.41      B
ATOM   5116  CB  VAL B 116     -11.826  29.231 -20.855  1.00 39.92      B
ATOM   5117  CG1 VAL B 116     -11.443  29.787 -19.506  1.00 38.25      B
ATOM   5118  CG2 VAL B 116     -11.116  27.933 -21.088  1.00 41.32      B
ATOM   5119  C   VAL B 116     -14.006  30.322 -20.561  1.00 41.37      B
ATOM   5120  O   VAL B 116     -14.493  30.492 -19.447  1.00 42.31      B
ATOM   5121  N   ASN B 117     -14.029  31.254 -21.501  1.00 40.76      B
ATOM   5122  CA  ASN B 117     -14.627  32.545 -21.230  1.00 40.09      B
ATOM   5123  CB  ASN B 117     -14.173  33.559 -22.287  1.00 41.41      B
ATOM   5124  CG  ASN B 117     -12.657  33.816 -22.230  1.00 42.72      B
ATOM   5125  OD1 ASN B 117     -12.128  34.291 -21.212  1.00 41.65      B
ATOM   5126  ND2 ASN B 117     -11.957  33.489 -23.317  1.00 40.39      B
ATOM   5127  C   ASN B 117     -16.145  32.480 -21.106  1.00 39.23      B
ATOM   5128  O   ASN B 117     -16.736  33.294 -20.398  1.00 40.94      B
ATOM   5129  N   HIS B 118     -16.779  31.517 -21.772  1.00 37.62      B
ATOM   5130  CA  HIS B 118     -18.227  31.362 -21.655  1.00 35.97      B
ATOM   5131  CB  HIS B 118     -18.787  30.464 -22.748  1.00 35.21      B
ATOM   5132  CG  HIS B 118     -20.226  30.100 -22.538  1.00 35.17      B
ATOM   5133  CD2 HIS B 118     -21.365  30.800 -22.762  1.00 34.91      B
ATOM   5134  ND1 HIS B 118     -20.620  28.893 -21.998  1.00 34.74      B
ATOM   5135  CE1 HIS B 118     -21.937  28.864 -21.903  1.00 34.55      B
ATOM   5136  NE2 HIS B 118     -22.413  30.010 -22.361  1.00 34.92      B
ATOM   5137  C   HIS B 118     -18.554  30.739 -20.293  1.00 37.19      B
ATOM   5138  O   HIS B 118     -19.594  31.032 -19.687  1.00 36.19      B
ATOM   5139  N   ILE B 119     -17.666  29.863 -19.828  1.00 35.65      B
ATOM   5140  CA  ILE B 119     -17.831  29.219 -18.537  1.00 34.48      B
ATOM   5141  CB  ILE B 119     -16.782  28.122 -18.337  1.00 32.85      B
ATOM   5142  CG2 ILE B 119     -16.789  27.646 -16.898  1.00 29.67      B
ATOM   5143  CG1 ILE B 119     -17.064  26.963 -19.301  1.00 31.72      B
ATOM   5144  CD1 ILE B 119     -15.966  25.915 -19.345  1.00 29.00      B
ATOM   5145  C   ILE B 119     -17.685  30.277 -17.446  1.00 36.14      B
ATOM   5146  O   ILE B 119     -18.521  30.366 -16.555  1.00 37.30      B
ATOM   5147  N   ARG B 120     -16.621  31.074 -17.514  1.00 37.93      B
ATOM   5148  CA  ARG B 120     -16.413  32.142 -16.541  1.00 38.51      B
ATOM   5149  CB  ARG B 120     -15.233  33.037 -16.936  1.00 43.28      B
ATOM   5150  CG  ARG B 120     -13.827  32.450 -16.821  1.00 48.50      B
ATOM   5151  CD  ARG B 120     -12.820  33.589 -16.555  1.00 51.30      B
ATOM   5152  NE  ARG B 120     -11.430  33.147 -16.581  1.00 56.05      B
ATOM   5153  CZ  ARG B 120     -10.717  32.984 -17.693  1.00 59.48      B
ATOM   5154  NH1 ARG B 120     -11.263  33.234 -18.881  1.00 60.00      B
ATOM   5155  NH2 ARG B 120      -9.458  32.563 -17.621  1.00 61.02      B
ATOM   5156  C   ARG B 120     -17.672  32.995 -16.590  1.00 37.93      B
ATOM   5157  O   ARG B 120     -18.107  33.570 -15.593  1.00 37.60      B
ATOM   5158  N   SER B 121     -18.232  33.082 -17.790  1.00 36.95      B
ATOM   5159  CA  SER B 121     -19.435  33.846 -18.045  1.00 35.69      B
ATOM   5160  CB  SER B 121     -19.724  33.856 -19.546  1.00 36.67      B
ATOM   5161  OG  SER B 121     -20.904  34.568 -19.860  1.00 39.92      B
ATOM   5162  C   SER B 121     -20.597  33.227 -17.293  1.00 34.56      B
ATOM   5163  O   SER B 121     -21.308  33.914 -16.567  1.00 35.45      B
ATOM   5164  N   VAL B 122     -20.788  31.924 -17.465  1.00 33.76      B
ATOM   5165  CA  VAL B 122     -21.876  31.227 -16.794  1.00 30.17      B
ATOM   5166  CB  VAL B 122     -21.947  29.744 -17.215  1.00 26.71      B
ATOM   5167  CG1 VAL B 122     -22.989  29.008 -16.397  1.00 23.07      B
ATOM   5168  CG2 VAL B 122     -22.312  29.656 -18.681  1.00 22.74      B
ATOM   5169  C   VAL B 122     -21.735  31.319 -15.290  1.00 30.67      B
ATOM   5170  O   VAL B 122     -22.731  31.376 -14.575  1.00 32.74      B
ATOM   5171  N   TRP B 123     -20.497  31.341 -14.810  1.00 31.86      B
ATOM   5172  CA  TRP B 123     -20.235  31.439 -13.377  1.00 31.90      B
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ATOM   5173  CB  TRP B 123     -18.760  31.145 -13.103  1.00 30.95       B
ATOM   5174  CG  TRP B 123     -18.385  31.184 -11.653  1.00 30.37       B
ATOM   5175  CD2 TRP B 123     -18.458  30.104 -10.717  1.00 29.68       B
ATOM   5176  CE2 TRP B 123     -18.002  30.597  -9.475  1.00 30.83       B
ATOM   5177  CE3 TRP B 123     -18.886  28.773 -10.799  1.00 30.55       B
ATOM   5178  CD1 TRP B 123     -17.893  32.250 -10.967  1.00 30.05       B
ATOM   5179  NE1 TRP B 123     -17.655  31.909  -9.659  1.00 30.26       B
ATOM   5180  CZ2 TRP B 123     -17.936  29.797  -8.325  1.00 31.32       B
ATOM   5181  CZ3 TRP B 123     -18.825  27.974  -9.650  1.00 31.63       B
ATOM   5182  CH2 TRP B 123     -18.361  28.495  -8.430  1.00 30.72       B
ATOM   5183  C   TRP B 123     -20.632  32.821 -12.839  1.00 32.70       B
ATOM   5184  O   TRP B 123     -21.324  32.922 -11.822  1.00 33.78       B
ATOM   5185  N   GLU B 124     -20.218  33.887 -13.513  1.00 32.71       B
ATOM   5186  CA  GLU B 124     -20.597  35.212 -13.052  1.00 35.50       B
ATOM   5187  CB  GLU B 124     -20.130  36.298 -14.025  1.00 40.92       B
ATOM   5188  CG  GLU B 124     -18.622  36.441 -14.163  1.00 49.19       B
ATOM   5189  CD  GLU B 124     -17.911  36.411 -12.815  1.00 56.48       B
ATOM   5190  OE1 GLU B 124     -18.374  37.109 -11.876  1.00 56.97       B
ATOM   5191  OE2 GLU B 124     -16.885  35.689 -12.700  1.00 60.53       B
ATOM   5192  C   GLU B 124     -22.116  35.283 -12.907  1.00 35.29       B
ATOM   5193  O   GLU B 124     -22.624  35.792 -11.909  1.00 36.82       B
ATOM   5194  N   ASP B 125     -22.840  34.764 -13.897  1.00 33.76       B
ATOM   5195  CA  ASP B 125     -24.308  34.775 -13.879  1.00 30.95       B
ATOM   5196  CB  ASP B 125     -24.857  34.195 -15.184  1.00 29.18       B
ATOM   5197  CG  ASP B 125     -26.367  34.299 -15.279  1.00 29.92       B
ATOM   5198  OD1 ASP B 125     -26.873  35.393 -15.615  1.00 33.38       B
ATOM   5199  OD2 ASP B 125     -27.052  33.290 -15.000  1.00 25.01       B
ATOM   5200  C   ASP B 125     -24.909  34.010 -12.690  1.00 30.08       B
ATOM   5201  O   ASP B 125     -26.039  34.262 -12.288  1.00 30.37       B
ATOM   5202  N   LEU B 126     -24.171  33.060 -12.133  1.00 29.89       B
ATOM   5203  CA  LEU B 126     -24.686  32.331 -10.984  1.00 29.98       B
ATOM   5204  CB  LEU B 126     -23.865  31.075 -10.737  1.00 29.85       B
ATOM   5205  CG  LEU B 126     -24.108  29.911 -11.687  1.00 30.80       B
ATOM   5206  CD1 LEU B 126     -23.157  28.788 -11.320  1.00 30.85       B
ATOM   5207  CD2 LEU B 126     -25.572  29.447 -11.582  1.00 28.89       B
ATOM   5208  C   LEU B 126     -24.606  33.247  -9.765  1.00 30.91       B
ATOM   5209  O   LEU B 126     -25.378  33.108  -8.813  1.00 29.17       B
ATOM   5210  N   LEU B 127     -23.670  34.192  -9.813  1.00 29.80       B
ATOM   5211  CA  LEU B 127     -23.482  35.131  -8.723  1.00 29.89       B
ATOM   5212  CB  LEU B 127     -22.018  35.540  -8.623  1.00 28.22       B
ATOM   5213  CG  LEU B 127     -20.966  34.433  -8.606  1.00 30.33       B
ATOM   5214  CD1 LEU B 127     -19.572  35.083  -8.563  1.00 24.30       B
ATOM   5215  CD2 LEU B 127     -21.202  33.494  -7.409  1.00 26.61       B
ATOM   5216  C   LEU B 127     -24.310  36.376  -8.926  1.00 30.76       B
ATOM   5217  O   LEU B 127     -24.642  37.056  -7.964  1.00 34.61       B
ATOM   5218  N   GLU B 128     -24.636  36.672 -10.179  1.00 31.24       B
ATOM   5219  CA  GLU B 128     -25.402  37.861 -10.532  1.00 30.75       B
ATOM   5220  CB  GLU B 128     -24.946  38.392 -11.888  1.00 31.76       B
ATOM   5221  CG  GLU B 128     -23.587  39.048 -11.894  1.00 35.07       B
ATOM   5222  CD  GLU B 128     -23.589  40.317 -11.099  1.00 37.63       B
ATOM   5223  OE1 GLU B 128     -24.555  41.091 -11.234  1.00 39.71       B
ATOM   5224  OE2 GLU B 128     -22.634  40.549 -10.339  1.00 41.78       B
ATOM   5225  C   GLU B 128     -26.901  37.654 -10.593  1.00 32.13       B
ATOM   5226  O   GLU B 128     -27.664  38.627 -10.565  1.00 35.43       B
ATOM   5227  N   ASP B 129     -27.327  36.399 -10.688  1.00 30.80       B
ATOM   5228  CA  ASP B 129     -28.746  36.077 -10.794  1.00 30.84       B
ATOM   5229  CB  ASP B 129     -29.064  35.665 -12.232  1.00 32.30       B
ATOM   5230  CG  ASP B 129     -30.555  35.471 -12.482  1.00 34.93       B
ATOM   5231  OD1 ASP B 129     -31.279  35.012 -11.561  1.00 34.71       B
ATOM   5232  OD2 ASP B 129     -30.994  35.768 -13.622  1.00 33.54       B
ATOM   5233  C   ASP B 129     -29.037  34.915  -9.871  1.00 31.92       B
ATOM   5234  O   ASP B 129     -28.381  33.881  -9.962  1.00 32.97       B
ATOM   5235  N   THR B 130     -30.020  35.070  -8.992  1.00 31.57       B
ATOM   5236  CA  THR B 130     -30.360  34.003  -8.054  1.00 31.72       B
ATOM   5237  CB  THR B 130     -30.379  34.516  -6.587  1.00 30.80       B
ATOM   5238  OG1 THR B 130     -31.372  35.538  -6.459  1.00 29.33       B
ATOM   5239  CG2 THR B 130     -29.036  35.090  -6.171  1.00 28.24       B
ATOM   5240  C   THR B 130     -31.740  33.416  -8.320  1.00 34.71       B
ATOM   5241  O   THR B 130     -32.167  32.520  -7.603  1.00 36.49       B
ATOM   5242  N   GLU B 131     -32.439  33.894  -9.346  1.00 36.85       B
ATOM   5243  CA  GLU B 131     -33.795  33.412  -9.579  1.00 37.83       B
ATOM   5244  CB  GLU B 131     -34.782  34.546  -9.300  1.00 40.39       B
ATOM   5245  CG  GLU B 131     -34.488  35.308  -8.024  1.00 47.70       B
ATOM   5246  CD  GLU B 131     -35.261  36.617  -7.935  1.00 51.22       B
ATOM   5247  OE1 GLU B 131     -35.311  37.344  -8.956  1.00 54.85       B
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ATOM   5248  OE2 GLU B 131     -35.802  36.924  -6.846  1.00 50.81      B
ATOM   5249  C   GLU B 131     -34.147  32.807 -10.931  1.00 37.06      B
ATOM   5250  O   GLU B 131     -34.884  31.826 -10.993  1.00 36.80      B
ATOM   5251  N   THR B 132     -33.640  33.387 -12.011  1.00 35.48      B
ATOM   5252  CA  THR B 132     -33.987  32.900 -13.343  1.00 33.86      B
ATOM   5253  CB  THR B 132     -33.264  33.681 -14.424  1.00 32.62      B
ATOM   5254  OG1 THR B 132     -33.162  35.051 -14.025  1.00 32.59      B
ATOM   5255  CG2 THR B 132     -34.053  33.614 -15.707  1.00 28.12      B
ATOM   5256  C   THR B 132     -33.736  31.421 -13.582  1.00 33.61      B
ATOM   5257  O   THR B 132     -32.593  30.956 -13.541  1.00 34.46      B
ATOM   5258  N   PRO B 133     -34.811  30.656 -13.842  1.00 31.57      B
ATOM   5259  CD  PRO B 133     -36.234  31.027 -13.888  1.00 26.98      B
ATOM   5260  CA  PRO B 133     -34.642  29.223 -14.082  1.00 28.84      B
ATOM   5261  CB  PRO B 133     -36.042  28.769 -14.478  1.00 27.40      B
ATOM   5262  CG  PRO B 133     -36.908  29.690 -13.678  1.00 28.16      B
ATOM   5263  C   PRO B 133     -33.624  28.998 -15.177  1.00 26.75      B
ATOM   5264  O   PRO B 133     -33.547  29.769 -16.122  1.00 25.17      B
ATOM   5265  N   ILE B 134     -32.830  27.952 -15.013  1.00 26.95      B
ATOM   5266  CA  ILE B 134     -31.814  27.602 -15.976  1.00 27.44      B
ATOM   5267  CB  ILE B 134     -30.564  27.019 -15.270  1.00 28.40      B
ATOM   5268  CG2 ILE B 134     -29.653  26.341 -16.284  1.00 27.34      B
ATOM   5269  CG1 ILE B 134     -29.836  28.138 -14.509  1.00 27.16      B
ATOM   5270  CD1 ILE B 134     -28.528  27.710 -13.860  1.00 24.60      B
ATOM   5271  C   ILE B 134     -32.431  26.577 -16.900  1.00 28.43      B
ATOM   5272  O   ILE B 134     -33.084  25.638 -16.455  1.00 29.48      B
ATOM   5273  N   ASP B 135     -32.231  26.764 -18.192  1.00 30.01      B
ATOM   5274  CA  ASP B 135     -32.792  25.853 -19.170  1.00 32.18      B
ATOM   5275  CB  ASP B 135     -32.567  26.414 -20.572  1.00 34.16      B
ATOM   5276  CG  ASP B 135     -33.388  25.705 -21.620  1.00 38.84      B
ATOM   5277  OD1 ASP B 135     -34.400  25.073 -21.237  1.00 42.25      B
ATOM   5278  OD2 ASP B 135     -33.037  25.794 -22.821  1.00 38.23      B
ATOM   5279  C   ASP B 135     -32.177  24.465 -19.057  1.00 32.51      B
ATOM   5280  O   ASP B 135     -31.052  24.321 -18.571  1.00 33.19      B
ATOM   5281  N   THR B 136     -32.938  23.455 -19.489  1.00 32.54      B
ATOM   5282  CA  THR B 136     -32.512  22.047 -19.496  1.00 31.76      B
ATOM   5283  CB  THR B 136     -32.996  21.253 -18.260  1.00 29.31      B
ATOM   5284  OG1 THR B 136     -34.425  21.141 -18.290  1.00 28.63      B
ATOM   5285  CG2 THR B 136     -32.553  21.933 -16.978  1.00 28.87      B
ATOM   5286  C   THR B 136     -33.079  21.330 -20.724  1.00 32.45      B
ATOM   5287  O   THR B 136     -34.155  21.673 -21.228  1.00 32.09      B
ATOM   5288  N   THR B 137     -32.340  20.334 -21.199  1.00 32.55      B
ATOM   5289  CA  THR B 137     -32.746  19.540 -22.350  1.00 32.09      B
ATOM   5290  CB  THR B 137     -31.542  19.205 -23.262  1.00 32.01      B
ATOM   5291  OG1 THR B 137     -31.117  20.381 -23.953  1.00 29.81      B
ATOM   5292  CG2 THR B 137     -31.912  18.135 -24.270  1.00 29.79      B
ATOM   5293  C   THR B 137     -33.299  18.229 -21.833  1.00 33.14      B
ATOM   5294  O   THR B 137     -32.674  17.590 -20.992  1.00 31.15      B
ATOM   5295  N   ILE B 138     -34.478  17.838 -22.311  1.00 36.69      B
ATOM   5296  CA  ILE B 138     -35.053  16.559 -21.899  1.00 38.13      B
ATOM   5297  CB  ILE B 138     -36.550  16.648 -21.512  1.00 35.16      B
ATOM   5298  CG2 ILE B 138     -37.367  17.236 -22.649  1.00 33.41      B
ATOM   5299  CG1 ILE B 138     -37.045  15.239 -21.153  1.00 35.36      B
ATOM   5300  CD1 ILE B 138     -38.419  15.167 -20.536  1.00 35.80      B
ATOM   5301  C   ILE B 138     -34.893  15.614 -23.078  1.00 39.96      B
ATOM   5302  O   ILE B 138     -34.919  16.048 -24.219  1.00 39.99      B
ATOM   5303  N   MET B 139     -34.704  14.330 -22.802  1.00 43.66      B
ATOM   5304  CA  MET B 139     -34.522  13.357 -23.866  1.00 46.84      B
ATOM   5305  CB  MET B 139     -33.065  13.315 -24.316  1.00 49.03      B
ATOM   5306  CG  MET B 139     -32.518  14.624 -24.806  1.00 54.35      B
ATOM   5307  SD  MET B 139     -31.916  14.444 -26.473  1.00 62.04      B
ATOM   5308  CE  MET B 139     -30.400  13.515 -26.135  1.00 59.74      B
ATOM   5309  C   MET B 139     -34.895  11.971 -23.417  1.00 47.91      B
ATOM   5310  O   MET B 139     -34.783  11.639 -22.240  1.00 48.34      B
ATOM   5311  N   ALA B 140     -35.333  11.164 -24.374  1.00 50.22      B
ATOM   5312  CA  ALA B 140     -35.685   9.781 -24.112  1.00 52.17      B
ATOM   5313  CB  ALA B 140     -36.569   9.255 -25.219  1.00 51.28      B
ATOM   5314  C   ALA B 140     -34.340   9.070 -24.124  1.00 53.42      B
ATOM   5315  O   ALA B 140     -33.560   9.249 -25.057  1.00 53.01      B
ATOM   5316  N   LYS B 141     -34.047   8.285 -23.094  1.00 55.70      B
ATOM   5317  CA  LYS B 141     -32.761   7.603 -23.065  1.00 59.88      B
ATOM   5318  CB  LYS B 141     -32.344   7.233 -21.640  1.00 60.26      B
ATOM   5319  CG  LYS B 141     -30.872   6.842 -21.558  1.00 62.55      B
ATOM   5320  CD  LYS B 141     -30.499   6.171 -20.241  1.00 66.13      B
ATOM   5321  CE  LYS B 141     -30.595   7.109 -19.045  1.00 66.71      B
ATOM   5322  NZ  LYS B 141     -30.254   6.395 -17.783  1.00 64.95      B
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ATOM	5323	C	LYS	B	141	-32.787	6.347	-23.912	1.00	62.07	B
ATOM	5324	O	LYS	B	141	-33.841	5.751	-24.131	1.00	62.94	B
ATOM	5325	N	SER	B	142	-31.616	5.946	-24.391	1.00	64.78	B
ATOM	5326	CA	SER	B	142	-31.508	4.755	-25.218	1.00	66.61	B
ATOM	5327	CB	SER	B	142	-30.685	5.063	-26.466	1.00	66.89	B
ATOM	5328	OG	SER	B	142	-30.846	4.045	-27.437	1.00	69.65	B
ATOM	5329	C	SER	B	142	-30.853	3.629	-24.428	1.00	67.70	B
ATOM	5330	O	SER	B	142	-29.678	3.711	-24.067	1.00	67.75	B
ATOM	5331	N	GLU	B	143	-31.623	2.585	-24.150	1.00	69.03	B
ATOM	5332	CA	GLU	B	143	-31.111	1.445	-23.406	1.00	70.92	B
ATOM	5333	CB	GLU	B	143	-31.580	1.508	-21.949	1.00	70.70	B
ATOM	5334	CG	GLU	B	143	-31.165	2.792	-21.248	1.00	70.92	B
ATOM	5335	CD	GLU	B	143	-31.424	2.778	-19.753	1.00	70.84	B
ATOM	5336	OE1	GLU	B	143	-32.585	2.559	-19.337	1.00	71.00	B
ATOM	5337	OE2	GLU	B	143	-30.456	3.001	-18.996	1.00	70.01	B
ATOM	5338	C	GLU	B	143	-31.587	0.161	-24.056	1.00	72.27	B
ATOM	5339	O	GLU	B	143	-32.651	0.129	-24.668	1.00	72.28	B
ATOM	5340	N	VAL	B	144	-30.791	-0.894	-23.927	1.00	74.34	B
ATOM	5341	CA	VAL	B	144	-31.139	-2.182	-24.515	1.00	76.49	B
ATOM	5342	CB	VAL	B	144	-29.923	-2.806	-25.232	1.00	75.72	B
ATOM	5343	CG1	VAL	B	144	-30.340	-4.074	-25.940	1.00	75.58	B
ATOM	5344	CG2	VAL	B	144	-29.335	-1.814	-26.223	1.00	75.46	B
ATOM	5345	C	VAL	B	144	-31.646	-3.157	-23.456	1.00	77.86	B
ATOM	5346	O	VAL	B	144	-31.124	-3.195	-22.342	1.00	77.31	B
ATOM	5347	N	PHE	B	145	-32.668	-3.934	-23.817	1.00	80.09	B
ATOM	5348	CA	PHE	B	145	-33.276	-4.922	-22.920	1.00	82.43	B
ATOM	5349	CB	PHE	B	145	-34.423	-4.288	-22.119	1.00	81.48	B
ATOM	5350	CG	PHE	B	145	-33.978	-3.235	-21.144	1.00	81.20	B
ATOM	5351	CD1	PHE	B	145	-33.262	-3.582	-20.002	1.00	80.49	B
ATOM	5352	CD2	PHE	B	145	-34.253	-1.891	-21.380	1.00	80.99	B
ATOM	5353	CE1	PHE	B	145	-32.829	-2.604	-19.106	1.00	80.25	B
ATOM	5354	CE2	PHE	B	145	-33.823	-0.906	-20.490	1.00	81.19	B
ATOM	5355	CZ	PHE	B	145	-33.108	-1.263	-19.352	1.00	80.01	B
ATOM	5356	C	PHE	B	145	-33.816	-6.120	-23.706	1.00	84.25	B
ATOM	5357	O	PHE	B	145	-33.662	-6.193	-24.927	1.00	84.22	B
ATOM	5358	N	CYS	B	146	-34.453	-7.049	-22.994	1.00	86.37	B
ATOM	5359	CA	CYS	B	146	-35.028	-8.251	-23.596	1.00	88.17	B
ATOM	5360	CB	CYS	B	146	-34.294	-9.493	-23.085	1.00	88.06	B
ATOM	5361	SG	CYS	B	146	-34.936	-11.067	-23.704	1.00	88.39	B
ATOM	5362	C	CYS	B	146	-36.517	-8.350	-23.259	1.00	90.07	B
ATOM	5363	O	CYS	B	146	-36.901	-8.350	-22.088	1.00	89.20	B
ATOM	5364	N	VAL	B	147	-37.347	-8.437	-24.296	1.00	93.06	B
ATOM	5365	CA	VAL	B	147	-38.798	-8.520	-24.137	1.00	95.81	B
ATOM	5366	CB	VAL	B	147	-39.497	-8.699	-25.514	1.00	95.47	B
ATOM	5367	CG1	VAL	B	147	-38.901	-7.731	-26.522	1.00	95.08	B
ATOM	5368	CG2	VAL	B	147	-39.353	-10.133	-26.005	1.00	94.83	B
ATOM	5369	C	VAL	B	147	-39.217	-9.670	-23.221	1.00	97.88	B
ATOM	5370	O	VAL	B	147	-38.606	-10.737	-23.240	1.00	98.77	B
ATOM	5371	N	GLN	B	148	-40.252	-9.443	-22.414	1.00	100.08	B
ATOM	5372	CA	GLN	B	148	-40.763	-10.473	-21.509	1.00	102.18	B
ATOM	5373	CB	GLN	B	148	-41.082	-9.882	-20.131	1.00	103.22	B
ATOM	5374	CG	GLN	B	148	-42.129	-10.689	-19.354	1.00	105.22	B
ATOM	5375	CD	GLN	B	148	-42.372	-10.168	-17.947	1.00	106.38	B
ATOM	5376	OE1	GLN	B	148	-42.442	-8.957	-17.722	1.00	106.93	B
ATOM	5377	NE2	GLN	B	148	-42.520	-11.088	-16.992	1.00	105.82	B
ATOM	5378	C	GLN	B	148	-42.026	-11.115	-22.087	1.00	103.12	B
ATOM	5379	O	GLN	B	148	-42.052	-12.358	-22.218	1.00	103.31	B
ATOM	5380	OXT	GLN	B	148	-42.978	-10.364	-22.394	1.00	104.50	B
ATOM	5381	C	GLY	B	153	-43.083	-5.767	-21.873	1.00	85.17	B
ATOM	5382	O	GLY	B	153	-42.191	-6.614	-21.996	1.00	85.25	B
ATOM	5383	N	GLY	B	153	-44.620	-7.613	-21.085	1.00	85.94	B
ATOM	5384	CA	GLY	B	153	-44.451	-6.146	-21.325	1.00	85.41	B
ATOM	5385	N	ARG	B	154	-42.926	-4.485	-22.201	1.00	83.79	B
ATOM	5386	CA	ARG	B	154	-41.682	-3.937	-22.748	1.00	82.16	B
ATOM	5387	CB	ARG	B	154	-41.761	-3.895	-24.274	1.00	82.25	B
ATOM	5388	CG	ARG	B	154	-40.675	-3.075	-24.928	1.00	83.52	B
ATOM	5389	CD	ARG	B	154	-40.794	-3.135	-26.441	1.00	85.38	B
ATOM	5390	NE	ARG	B	154	-40.367	-4.425	-26.978	1.00	86.20	B
ATOM	5391	CZ	ARG	B	154	-40.451	-4.765	-28.260	1.00	85.98	B
ATOM	5392	NH1	ARG	B	154	-40.951	-3.912	-29.144	1.00	85.64	B
ATOM	5393	NH2	ARG	B	154	-40.026	-5.956	-28.659	1.00	86.52	B
ATOM	5394	C	ARG	B	154	-41.488	-2.527	-22.191	1.00	80.21	B
ATOM	5395	O	ARG	B	154	-42.288	-1.633	-22.462	1.00	81.00	B
ATOM	5396	N	LYS	B	155	-40.418	-2.321	-21.431	1.00	77.21	B
ATOM	5397	CA	LYS	B	155	-40.185	-1.024	-20.804	1.00	73.91	B

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ATOM   5398  CB  LYS B 155     -39.127  -1.153 -19.707  1.00 73.97      B
ATOM   5399  CG  LYS B 155     -37.762  -1.590 -20.187  1.00 73.72      B
ATOM   5400  CD  LYS B 155     -36.886  -1.957 -19.000  1.00 74.37      B
ATOM   5401  CE  LYS B 155     -37.517  -3.077 -18.176  1.00 73.35      B
ATOM   5402  NZ  LYS B 155     -36.637  -3.513 -17.062  1.00 73.70      B
ATOM   5403  C   LYS B 155     -39.843   0.166 -21.689  1.00 70.83      B
ATOM   5404  O   LYS B 155     -39.029   0.073 -22.611  1.00 69.52      B
ATOM   5405  N   PRO B 156     -40.495   1.309 -21.415  1.00 68.08      B
ATOM   5406  CD  PRO B 156     -41.670   1.412 -20.528  1.00 66.82      B
ATOM   5407  CA  PRO B 156     -40.293   2.557 -22.148  1.00 65.53      B
ATOM   5408  CB  PRO B 156     -41.549   3.364 -21.811  1.00 65.95      B
ATOM   5409  CG  PRO B 156     -41.877   2.906 -20.433  1.00 66.34      B
ATOM   5410  C   PRO B 156     -39.009   3.229 -21.675  1.00 62.82      B
ATOM   5411  O   PRO B 156     -38.474   2.899 -20.614  1.00 61.63      B
ATOM   5412  N   ALA B 157     -38.526   4.175 -22.468  1.00 60.18      B
ATOM   5413  CA  ALA B 157     -37.296   4.875 -22.156  1.00 57.71      B
ATOM   5414  CB  ALA B 157     -36.872   5.712 -23.341  1.00 58.84      B
ATOM   5415  C   ALA B 157     -37.414   5.755 -20.936  1.00 55.77      B
ATOM   5416  O   ALA B 157     -38.485   6.277 -20.633  1.00 55.89      B
ATOM   5417  N   ARG B 158     -36.301   5.900 -20.229  1.00 53.14      B
ATOM   5418  CA  ARG B 158     -36.256   6.765 -19.069  1.00 50.64      B
ATOM   5419  CB  ARG B 158     -35.139   6.338 -18.119  1.00 51.65      B
ATOM   5420  CG  ARG B 158     -35.533   5.209 -17.186  1.00 56.02      B
ATOM   5421  CD  ARG B 158     -34.440   4.895 -16.167  1.00 58.56      B
ATOM   5422  NE  ARG B 158     -34.970   4.192 -14.994  1.00 62.65      B
ATOM   5423  CZ  ARG B 158     -35.771   4.740 -14.076  1.00 65.06      B
ATOM   5424  NH1 ARG B 158     -36.196   4.012 -13.048  1.00 64.42      B
ATOM   5425  NH2 ARG B 158     -36.143   6.017 -14.174  1.00 65.70      B
ATOM   5426  C   ARG B 158     -35.970   8.147 -19.635  1.00 48.57      B
ATOM   5427  O   ARG B 158     -35.532   8.283 -20.775  1.00 48.22      B
ATOM   5428  N   LEU B 159     -36.228   9.181 -18.856  1.00 46.58      B
ATOM   5429  CA  LEU B 159     -35.969  10.524 -19.341  1.00 44.46      B
ATOM   5430  CB  LEU B 159     -37.078  11.465 -18.892  1.00 44.43      B
ATOM   5431  CG  LEU B 159     -38.502  11.044 -19.241  1.00 44.91      B
ATOM   5432  CD1 LEU B 159     -39.457  12.127 -18.763  1.00 44.19      B
ATOM   5433  CD2 LEU B 159     -38.635  10.823 -20.743  1.00 44.22      B
ATOM   5434  C   LEU B 159     -34.651  11.045 -18.807  1.00 42.58      B
ATOM   5435  O   LEU B 159     -34.195  10.641 -17.740  1.00 43.74      B
ATOM   5436  N   ILE B 160     -34.013  11.921 -19.563  1.00 40.64      B
ATOM   5437  CA  ILE B 160     -32.783  12.521 -19.076  1.00 40.03      B
ATOM   5438  CB  ILE B 160     -31.525  12.048 -19.840  1.00 39.68      B
ATOM   5439  CG2 ILE B 160     -31.326  10.553 -19.638  1.00 39.52      B
ATOM   5440  CG1 ILE B 160     -31.650  12.378 -21.319  1.00 41.05      B
ATOM   5441  CD1 ILE B 160     -30.416  11.999 -22.119  1.00 44.85      B
ATOM   5442  C   ILE B 160     -32.963  14.018 -19.235  1.00 38.50      B
ATOM   5443  O   ILE B 160     -33.396  14.498 -20.283  1.00 37.96      B
ATOM   5444  N   VAL B 161     -32.674  14.742 -18.163  1.00 36.29      B
ATOM   5445  CA  VAL B 161     -32.789  16.188 -18.147  1.00 34.40      B
ATOM   5446  CB  VAL B 161     -33.796  16.642 -17.071  1.00 33.88      B
ATOM   5447  CG1 VAL B 161     -33.843  18.161 -16.998  1.00 32.52      B
ATOM   5448  CG2 VAL B 161     -35.162  16.064 -17.376  1.00 31.22      B
ATOM   5449  C   VAL B 161     -31.409  16.706 -17.779  1.00 33.74      B
ATOM   5450  O   VAL B 161     -30.813  16.247 -16.804  1.00 33.88      B
ATOM   5451  N   PHE B 162     -30.881  17.638 -18.555  1.00 31.87      B
ATOM   5452  CA  PHE B 162     -29.573  18.168 -18.216  1.00 33.55      B
ATOM   5453  CB  PHE B 162     -28.472  17.225 -18.709  1.00 33.42      B
ATOM   5454  CG  PHE B 162     -28.447  17.073 -20.189  1.00 33.30      B
ATOM   5455  CD1 PHE B 162     -29.283  16.165 -20.819  1.00 34.61      B
ATOM   5456  CD2 PHE B 162     -27.645  17.899 -20.964  1.00 33.24      B
ATOM   5457  CE1 PHE B 162     -29.326  16.091 -22.213  1.00 35.55      B
ATOM   5458  CE2 PHE B 162     -27.681  17.835 -22.347  1.00 32.58      B
ATOM   5459  CZ  PHE B 162     -28.521  16.932 -22.973  1.00 33.51      B
ATOM   5460  C   PHE B 162     -29.342  19.569 -18.778  1.00 32.59      B
ATOM   5461  O   PHE B 162     -29.849  19.920 -19.850  1.00 33.90      B
ATOM   5462  N   PRO B 163     -28.573  20.391 -18.045  1.00 30.09      B
ATOM   5463  CD  PRO B 163     -28.064  20.112 -16.691  1.00 28.64      B
ATOM   5464  CA  PRO B 163     -28.254  21.758 -18.447  1.00 29.07      B
ATOM   5465  CB  PRO B 163     -27.787  22.386 -17.149  1.00 28.46      B
ATOM   5466  CG  PRO B 163     -27.093  21.229 -16.481  1.00 28.28      B
ATOM   5467  C   PRO B 163     -27.164  21.765 -19.512  1.00 29.75      B
ATOM   5468  O   PRO B 163     -26.594  20.720 -19.835  1.00 27.43      B
ATOM   5469  N   ASP B 164     -26.880  22.953 -20.045  1.00 30.60      B
ATOM   5470  CA  ASP B 164     -25.867  23.122 -21.070  1.00 29.65      B
ATOM   5471  CB  ASP B 164     -25.883  24.548 -21.615  1.00 31.37      B
ATOM   5472  CG  ASP B 164     -25.041  24.703 -22.883  1.00 34.41      B
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ATOM   5473  OD1 ASP B 164     -25.494  24.269 -23.964  1.00 35.19      B
ATOM   5474  OD2 ASP B 164     -23.921  25.250 -22.799  1.00 34.61      B
ATOM   5475  C   ASP B 164     -24.495  22.826 -20.492  1.00 31.11      B
ATOM   5476  O   ASP B 164     -24.294  22.853 -19.273  1.00 29.50      B
ATOM   5477  N   LEU B 165     -23.554  22.552 -21.390  1.00 31.99      B
ATOM   5478  CA  LEU B 165     -22.180  22.239 -21.021  1.00 32.27      B
ATOM   5479  CB  LEU B 165     -21.328  22.153 -22.289  1.00 31.34      B
ATOM   5480  CG  LEU B 165     -19.866  21.743 -22.138  1.00 31.98      B
ATOM   5481  CD1 LEU B 165     -19.755  20.469 -21.328  1.00 30.92      B
ATOM   5482  CD2 LEU B 165     -19.265  21.552 -23.520  1.00 32.82      B
ATOM   5483  C   LEU B 165     -21.572  23.253 -20.045  1.00 31.29      B
ATOM   5484  O   LEU B 165     -21.028  22.876 -19.005  1.00 31.32      B
ATOM   5485  N   GLY B 166     -21.669  24.534 -20.383  1.00 29.77      B
ATOM   5486  CA  GLY B 166     -21.113  25.562 -19.521  1.00 31.88      B
ATOM   5487  C   GLY B 166     -21.570  25.421 -18.079  1.00 31.60      B
ATOM   5488  O   GLY B 166     -20.767  25.473 -17.141  1.00 31.28      B
ATOM   5489  N   VAL B 167     -22.873  25.248 -17.903  1.00 30.62      B
ATOM   5490  CA  VAL B 167     -23.434  25.086 -16.578  1.00 30.02      B
ATOM   5491  CB  VAL B 167     -24.981  24.982 -16.644  1.00 30.55      B
ATOM   5492  CG1 VAL B 167     -25.550  24.574 -15.281  1.00 30.08      B
ATOM   5493  CG2 VAL B 167     -25.570  26.324 -17.082  1.00 27.81      B
ATOM   5494  C   VAL B 167     -22.862  23.827 -15.934  1.00 30.44      B
ATOM   5495  O   VAL B 167     -22.487  23.840 -14.762  1.00 31.39      B
ATOM   5496  N   ARG B 168     -22.780  22.745 -16.704  1.00 30.48      B
ATOM   5497  CA  ARG B 168     -22.268  21.488 -16.178  1.00 29.69      B
ATOM   5498  CB  ARG B 168     -22.278  20.391 -17.253  1.00 30.55      B
ATOM   5499  CG  ARG B 168     -23.698  19.920 -17.685  1.00 31.12      B
ATOM   5500  CD  ARG B 168     -23.688  18.535 -18.352  1.00 29.42      B
ATOM   5501  NE  ARG B 168     -22.874  18.487 -19.567  1.00 31.60      B
ATOM   5502  CZ  ARG B 168     -23.268  18.910 -20.767  1.00 32.65      B
ATOM   5503  NH1 ARG B 168     -24.483  19.417 -20.952  1.00 31.76      B
ATOM   5504  NH2 ARG B 168     -22.432  18.843 -21.789  1.00 33.13      B
ATOM   5505  C   ARG B 168     -20.872  21.658 -15.620  1.00 31.23      B
ATOM   5506  O   ARG B 168     -20.526  21.045 -14.601  1.00 31.31      B
ATOM   5507  N   VAL B 169     -20.066  22.495 -16.265  1.00 31.13      B
ATOM   5508  CA  VAL B 169     -18.706  22.708 -15.774  1.00 32.62      B
ATOM   5509  CB  VAL B 169     -17.809  23.398 -16.841  1.00 32.38      B
ATOM   5510  CG1 VAL B 169     -16.412  23.631 -16.284  1.00 30.97      B
ATOM   5511  CG2 VAL B 169     -17.715  22.529 -18.081  1.00 31.81      B
ATOM   5512  C   VAL B 169     -18.701  23.535 -14.483  1.00 32.85      B
ATOM   5513  O   VAL B 169     -17.888  23.304 -13.595  1.00 34.77      B
ATOM   5514  N   CYS B 170     -19.617  24.488 -14.368  1.00 32.36      B
ATOM   5515  CA  CYS B 170     -19.671  25.314 -13.173  1.00 31.02      B
ATOM   5516  CB  CYS B 170     -20.599  26.500 -13.384  1.00 28.96      B
ATOM   5517  SG  CYS B 170     -20.005  27.648 -14.632  1.00 30.19      B
ATOM   5518  C   CYS B 170     -20.131  24.506 -11.984  1.00 31.43      B
ATOM   5519  O   CYS B 170     -19.712  24.753 -10.852  1.00 33.58      B
ATOM   5520  N   GLU B 171     -20.994  23.534 -12.233  1.00 31.92      B
ATOM   5521  CA  GLU B 171     -21.477  22.703 -11.145  1.00 32.38      B
ATOM   5522  CB  GLU B 171     -22.413  21.617 -11.655  1.00 32.98      B
ATOM   5523  CG  GLU B 171     -23.687  22.091 -12.316  1.00 34.10      B
ATOM   5524  CD  GLU B 171     -24.592  20.919 -12.651  1.00 35.71      B
ATOM   5525  OE1 GLU B 171     -25.111  20.284 -11.705  1.00 35.21      B
ATOM   5526  OE2 GLU B 171     -24.770  20.619 -13.852  1.00 36.24      B
ATOM   5527  C   GLU B 171     -20.278  22.031 -10.510  1.00 32.19      B
ATOM   5528  O   GLU B 171     -20.197  21.886  -9.287  1.00 32.21      B
ATOM   5529  N   LYS B 172     -19.336  21.624 -11.351  1.00 32.08      B
ATOM   5530  CA  LYS B 172     -18.167  20.940 -10.847  1.00 32.79      B
ATOM   5531  CB  LYS B 172     -17.320  20.386 -11.997  1.00 32.85      B
ATOM   5532  CG  LYS B 172     -18.041  19.341 -12.840  1.00 33.00      B
ATOM   5533  CD  LYS B 172     -17.076  18.580 -13.721  1.00 35.88      B
ATOM   5534  CE  LYS B 172     -17.786  17.648 -14.700  1.00 36.46      B
ATOM   5535  NZ  LYS B 172     -18.346  18.390 -15.861  1.00 40.09      B
ATOM   5536  C   LYS B 172     -17.357  21.857  -9.961  1.00 33.56      B
ATOM   5537  O   LYS B 172     -17.017  21.482  -8.839  1.00 35.00      B
ATOM   5538  N   MET B 173     -17.073  23.065 -10.435  1.00 32.65      B
ATOM   5539  CA  MET B 173     -16.290  24.000  -9.635  1.00 33.15      B
ATOM   5540  CB  MET B 173     -16.178  25.353 -10.329  1.00 34.14      B
ATOM   5541  CG  MET B 173     -15.342  25.335 -11.591  1.00 36.77      B
ATOM   5542  SD  MET B 173     -15.277  26.971 -12.352  1.00 42.34      B
ATOM   5543  CE  MET B 173     -16.790  26.981 -13.310  1.00 38.70      B
ATOM   5544  C   MET B 173     -16.865  24.215  -8.247  1.00 32.55      B
ATOM   5545  O   MET B 173     -16.127  24.307  -7.272  1.00 32.84      B
ATOM   5546  N   ALA B 174     -18.186  24.272  -8.152  1.00 32.58      B
ATOM   5547  CA  ALA B 174     -18.833  24.523  -6.869  1.00 31.50      B
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ATOM   5548  CB  ALA B 174     -20.073  25.372  -7.091  1.00 29.66      B
ATOM   5549  C   ALA B 174     -19.203  23.307  -6.031  1.00 31.96      B
ATOM   5550  O   ALA B 174     -19.210  23.388  -4.802  1.00 32.39      B
ATOM   5551  N   LEU B 175     -19.494  22.175  -6.665  1.00 30.92      B
ATOM   5552  CA  LEU B 175     -19.918  21.026  -5.880  1.00 30.73      B
ATOM   5553  CB  LEU B 175     -21.422  20.826  -6.088  1.00 27.88      B
ATOM   5554  CG  LEU B 175     -22.276  21.938  -5.478  1.00 27.58      B
ATOM   5555  CD1 LEU B 175     -23.570  22.133  -6.256  1.00 24.63      B
ATOM   5556  CD2 LEU B 175     -22.548  21.585  -4.019  1.00 27.95      B
ATOM   5557  C   LEU B 175     -19.185  19.699  -6.060  1.00 31.08      B
ATOM   5558  O   LEU B 175     -19.447  18.751  -5.317  1.00 29.56      B
ATOM   5559  N   TYR B 176     -18.271  19.620  -7.021  1.00 30.91      B
ATOM   5560  CA  TYR B 176     -17.554  18.369  -7.224  1.00 31.90      B
ATOM   5561  CB  TYR B 176     -16.419  18.521  -8.242  1.00 31.35      B
ATOM   5562  CG  TYR B 176     -15.722  17.201  -8.499  1.00 33.02      B
ATOM   5563  CD1 TYR B 176     -16.355  16.181  -9.212  1.00 34.32      B
ATOM   5564  CE1 TYR B 176     -15.765  14.928  -9.358  1.00 34.59      B
ATOM   5565  CD2 TYR B 176     -14.475  16.932  -7.947  1.00 33.97      B
ATOM   5566  CE2 TYR B 176     -13.881  15.688  -8.086  1.00 33.11      B
ATOM   5567  CZ  TYR B 176     -14.531  14.693  -8.785  1.00 34.43      B
ATOM   5568  OH  TYR B 176     -13.958  13.452  -8.869  1.00 36.19      B
ATOM   5569  C   TYR B 176     -16.975  17.863  -5.907  1.00 33.18      B
ATOM   5570  O   TYR B 176     -17.271  16.743  -5.475  1.00 33.30      B
ATOM   5571  N   ASP B 177     -16.149  18.693  -5.274  1.00 33.53      B
ATOM   5572  CA  ASP B 177     -15.529  18.341  -4.005  1.00 33.55      B
ATOM   5573  CB  ASP B 177     -14.797  19.561  -3.447  1.00 38.51      B
ATOM   5574  CG  ASP B 177     -13.693  19.200  -2.450  1.00 42.11      B
ATOM   5575  OD1 ASP B 177     -13.609  18.032  -2.006  1.00 41.03      B
ATOM   5576  OD2 ASP B 177     -12.901  20.111  -2.105  1.00 46.96      B
ATOM   5577  C   ASP B 177     -16.628  17.897  -3.037  1.00 32.18      B
ATOM   5578  O   ASP B 177     -16.556  16.823  -2.444  1.00 30.80      B
ATOM   5579  N   VAL B 178     -17.661  18.722  -2.906  1.00 32.59      B
ATOM   5580  CA  VAL B 178     -18.773  18.422  -2.009  1.00 32.43      B
ATOM   5581  CB  VAL B 178     -19.913  19.458  -2.132  1.00 31.77      B
ATOM   5582  CG1 VAL B 178     -20.991  19.149  -1.117  1.00 30.45      B
ATOM   5583  CG2 VAL B 178     -19.385  20.863  -1.933  1.00 29.42      B
ATOM   5584  C   VAL B 178     -19.391  17.045  -2.240  1.00 34.91      B
ATOM   5585  O   VAL B 178     -19.492  16.244  -1.301  1.00 36.86      B
ATOM   5586  N   VAL B 179     -19.810  16.763  -3.474  1.00 34.19      B
ATOM   5587  CA  VAL B 179     -20.439  15.478  -3.766  1.00 34.73      B
ATOM   5588  CB  VAL B 179     -21.143  15.479  -5.133  1.00 33.49      B
ATOM   5589  CG1 VAL B 179     -22.122  16.620  -5.210  1.00 32.47      B
ATOM   5590  CG2 VAL B 179     -20.119  15.564  -6.255  1.00 35.83      B
ATOM   5591  C   VAL B 179     -19.493  14.283  -3.727  1.00 37.20      B
ATOM   5592  O   VAL B 179     -19.943  13.138  -3.768  1.00 39.84      B
ATOM   5593  N   SER B 180     -18.193  14.538  -3.640  1.00 37.95      B
ATOM   5594  CA  SER B 180     -17.220  13.452  -3.597  1.00 39.40      B
ATOM   5595  CB  SER B 180     -16.017  13.787  -4.466  1.00 39.36      B
ATOM   5596  OG  SER B 180     -16.419  14.055  -5.789  1.00 44.54      B
ATOM   5597  C   SER B 180     -16.723  13.241  -2.187  1.00 39.89      B
ATOM   5598  O   SER B 180     -16.040  12.260  -1.896  1.00 39.96      B
ATOM   5599  N   THR B 181     -17.087  14.163  -1.310  1.00 40.33      B
ATOM   5600  CA  THR B 181     -16.619  14.139   0.064  1.00 39.07      B
ATOM   5601  CB  THR B 181     -15.843  15.438   0.335  1.00 38.73      B
ATOM   5602  OG1 THR B 181     -14.663  15.453  -0.470  1.00 39.91      B
ATOM   5603  CG2 THR B 181     -15.464  15.555   1.783  1.00 41.21      B
ATOM   5604  C   THR B 181     -17.671  13.987   1.148  1.00 38.43      B
ATOM   5605  O   THR B 181     -17.517  13.196   2.071  1.00 39.59      B
ATOM   5606  N   LEU B 182     -18.733  14.768   1.031  1.00 37.64      B
ATOM   5607  CA  LEU B 182     -19.794  14.802   2.021  1.00 35.40      B
ATOM   5608  CB  LEU B 182     -20.750  15.939   1.638  1.00 32.82      B
ATOM   5609  CG  LEU B 182     -21.936  16.294   2.514  1.00 30.16      B
ATOM   5610  CD1 LEU B 182     -22.189  17.770   2.434  1.00 32.58      B
ATOM   5611  CD2 LEU B 182     -23.140  15.529   2.058  1.00 29.93      B
ATOM   5612  C   LEU B 182     -20.547  13.498   2.311  1.00 35.30      B
ATOM   5613  O   LEU B 182     -20.634  13.091   3.464  1.00 35.54      B
ATOM   5614  N   PRO B 183     -21.080  12.818   1.278  1.00 35.68      B
ATOM   5615  CD  PRO B 183     -20.862  13.090  -0.155  1.00 35.77      B
ATOM   5616  CA  PRO B 183     -21.825  11.557   1.462  1.00 36.21      B
ATOM   5617  CB  PRO B 183     -21.884  10.977   0.048  1.00 35.17      B
ATOM   5618  CG  PRO B 183     -21.898  12.197  -0.818  1.00 35.23      B
ATOM   5619  C   PRO B 183     -21.161  10.584   2.441  1.00 36.82      B
ATOM   5620  O   PRO B 183     -21.797  10.055   3.356  1.00 35.80      B
ATOM   5621  N   GLN B 184     -19.879  10.335   2.222  1.00 36.56      B
ATOM   5622  CA  GLN B 184     -19.125   9.446   3.079  1.00 37.84      B
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ATOM	5623	CB	GLN	B	184	-17.691	9.349	2.573	1.00	41.54	B
ATOM	5624	CG	GLN	B	184	-16.754	8.585	3.488	1.00	46.37	B
ATOM	5625	CD	GLN	B	184	-16.701	7.121	3.141	1.00	49.88	B
ATOM	5626	OE1	GLN	B	184	-16.398	6.756	1.999	1.00	53.32	B
ATOM	5627	NE2	GLN	B	184	-16.996	6.265	4.117	1.00	51.44	B
ATOM	5628	C	GLN	B	184	-19.115	9.998	4.500	1.00	37.29	B
ATOM	5629	O	GLN	B	184	-19.336	9.268	5.468	1.00	37.06	B
ATOM	5630	N	ALA	B	185	-18.851	11.295	4.612	1.00	35.73	B
ATOM	5631	CA	ALA	B	185	-18.775	11.964	5.907	1.00	36.20	B
ATOM	5632	CB	ALA	B	185	-18.291	13.397	5.718	1.00	36.03	B
ATOM	5633	C	ALA	B	185	-20.080	11.963	6.694	1.00	36.13	B
ATOM	5634	O	ALA	B	185	-20.069	11.973	7.926	1.00	35.00	B
ATOM	5635	N	VAL	B	186	-21.197	11.947	5.979	1.00	35.94	B
ATOM	5636	CA	VAL	B	186	-22.505	11.968	6.606	1.00	37.00	B
ATOM	5637	CB	VAL	B	186	-23.512	12.758	5.722	1.00	34.89	B
ATOM	5638	CG1	VAL	B	186	-24.898	12.756	6.341	1.00	30.56	B
ATOM	5639	CG2	VAL	B	186	-23.023	14.182	5.540	1.00	32.76	B
ATOM	5640	C	VAL	B	186	-23.067	10.574	6.887	1.00	40.66	B
ATOM	5641	O	VAL	B	186	-23.600	10.315	7.969	1.00	42.44	B
ATOM	5642	N	MET	B	187	-22.924	9.664	5.930	1.00	42.57	B
ATOM	5643	CA	MET	B	187	-23.477	8.324	6.089	1.00	44.60	B
ATOM	5644	CB	MET	B	187	-24.191	7.950	4.793	1.00	45.84	B
ATOM	5645	CG	MET	B	187	-25.343	8.904	4.478	1.00	48.13	B
ATOM	5646	SD	MET	B	187	-25.787	8.978	2.732	1.00	50.10	B
ATOM	5647	CE	MET	B	187	-26.360	7.336	2.494	1.00	51.94	B
ATOM	5648	C	MET	B	187	-22.520	7.208	6.523	1.00	45.33	B
ATOM	5649	O	MET	B	187	-22.956	6.115	6.892	1.00	47.62	B
ATOM	5650	N	GLY	B	188	-21.221	7.474	6.496	1.00	44.40	B
ATOM	5651	CA	GLY	B	188	-20.282	6.452	6.910	1.00	42.13	B
ATOM	5652	C	GLY	B	188	-20.429	5.170	6.124	1.00	41.43	B
ATOM	5653	O	GLY	B	188	-20.659	5.206	4.922	1.00	41.80	B
ATOM	5654	N	SER	B	189	-20.309	4.034	6.804	1.00	41.57	B
ATOM	5655	CA	SER	B	189	-20.401	2.725	6.153	1.00	40.98	B
ATOM	5656	CB	SER	B	189	-20.341	1.605	7.199	1.00	38.89	B
ATOM	5657	OG	SER	B	189	-21.494	1.605	8.021	1.00	36.32	B
ATOM	5658	C	SER	B	189	-21.624	2.510	5.255	1.00	41.36	B
ATOM	5659	O	SER	B	189	-21.559	1.728	4.315	1.00	42.70	B
ATOM	5660	N	SER	B	190	-22.735	3.188	5.542	1.00	41.48	B
ATOM	5661	CA	SER	B	190	-23.947	3.049	4.732	1.00	40.89	B
ATOM	5662	CB	SER	B	190	-25.134	3.714	5.422	1.00	40.44	B
ATOM	5663	OG	SER	B	190	-25.479	3.030	6.610	1.00	44.20	B
ATOM	5664	C	SER	B	190	-23.824	3.627	3.321	1.00	40.72	B
ATOM	5665	O	SER	B	190	-24.676	3.373	2.478	1.00	42.51	B
ATOM	5666	N	TYR	B	191	-22.788	4.415	3.057	1.00	39.70	B
ATOM	5667	CA	TYR	B	191	-22.622	4.972	1.724	1.00	39.45	B
ATOM	5668	CB	TYR	B	191	-21.550	6.059	1.711	1.00	37.56	B
ATOM	5669	CG	TYR	B	191	-21.433	6.770	0.381	1.00	35.44	B
ATOM	5670	CD1	TYR	B	191	-22.562	7.285	-0.257	1.00	34.40	B
ATOM	5671	CE1	TYR	B	191	-22.462	7.953	-1.472	1.00	33.25	B
ATOM	5672	CD2	TYR	B	191	-20.198	6.945	-0.234	1.00	34.00	B
ATOM	5673	CE2	TYR	B	191	-20.089	7.617	-1.450	1.00	33.49	B
ATOM	5674	CZ	TYR	B	191	-21.224	8.115	-2.061	1.00	33.72	B
ATOM	5675	OH	TYR	B	191	-21.120	8.773	-3.266	1.00	36.72	B
ATOM	5676	C	TYR	B	191	-22.201	3.831	0.830	1.00	41.01	B
ATOM	5677	O	TYR	B	191	-21.141	3.253	1.018	1.00	43.56	B
ATOM	5678	N	GLY	B	192	-23.029	3.497	-0.145	1.00	42.46	B
ATOM	5679	CA	GLY	B	192	-22.698	2.388	-1.017	1.00	44.61	B
ATOM	5680	C	GLY	B	192	-21.479	2.557	-1.906	1.00	46.10	B
ATOM	5681	O	GLY	B	192	-20.561	1.734	-1.884	1.00	46.85	B
ATOM	5682	N	PHE	B	193	-21.462	3.637	-2.675	1.00	46.42	B
ATOM	5683	CA	PHE	B	193	-20.390	3.905	-3.625	1.00	46.54	B
ATOM	5684	CB	PHE	B	193	-20.670	5.229	-4.328	1.00	45.75	B
ATOM	5685	CG	PHE	B	193	-21.999	5.259	-5.016	1.00	45.98	B
ATOM	5686	CD1	PHE	B	193	-22.276	4.365	-6.045	1.00	45.22	B
ATOM	5687	CD2	PHE	B	193	-22.991	6.149	-4.615	1.00	47.01	B
ATOM	5688	CE1	PHE	B	193	-23.522	4.346	-6.663	1.00	44.57	B
ATOM	5689	CE2	PHE	B	193	-24.245	6.140	-5.229	1.00	46.57	B
ATOM	5690	CZ	PHE	B	193	-24.508	5.235	-6.256	1.00	45.34	B
ATOM	5691	C	PHE	B	193	-18.948	3.876	-3.152	1.00	46.34	B
ATOM	5692	O	PHE	B	193	-18.041	3.990	-3.965	1.00	46.59	B
ATOM	5693	N	GLN	B	194	-18.724	3.709	-1.857	1.00	48.78	B
ATOM	5694	CA	GLN	B	194	-17.355	3.681	-1.335	1.00	51.14	B
ATOM	5695	CB	GLN	B	194	-17.322	4.198	0.101	1.00	50.14	B
ATOM	5696	CG	GLN	B	194	-17.989	3.248	1.065	1.00	51.01	B
ATOM	5697	CD	GLN	B	194	-17.783	3.632	2.505	1.00	52.05	B

ATOM	5698	OE1	GLN	B	194	-16.649	3.731	2.978	1.00	53.32	B
ATOM	5699	NE2	GLN	B	194	-18.880	3.847	3.221	1.00	53.20	B
ATOM	5700	C	GLN	B	194	-16.780	2.269	-1.347	1.00	52.80	B
ATOM	5701	O	GLN	B	194	-15.611	2.062	-1.004	1.00	53.43	B
ATOM	5702	N	TYR	B	195	-17.605	1.302	-1.740	1.00	53.67	B
ATOM	5703	CA	TYR	B	195	-17.194	-0.099	-1.755	1.00	53.07	B
ATOM	5704	CB	TYR	B	195	-18.262	-0.959	-1.094	1.00	49.65	B
ATOM	5705	CG	TYR	B	195	-18.547	-0.646	0.345	1.00	48.25	B
ATOM	5706	CD1	TYR	B	195	-17.545	-0.729	1.313	1.00	47.74	B
ATOM	5707	CE1	TYR	B	195	-17.833	-0.514	2.661	1.00	47.98	B
ATOM	5708	CD2	TYR	B	195	-19.839	-0.335	0.757	1.00	47.04	B
ATOM	5709	CE2	TYR	B	195	-20.134	-0.119	2.095	1.00	47.29	B
ATOM	5710	CZ	TYR	B	195	-19.131	-0.210	3.042	1.00	47.61	B
ATOM	5711	OH	TYR	B	195	-19.432	0.004	4.368	1.00	50.15	B
ATOM	5712	C	TYR	B	195	-16.922	-0.710	-3.116	1.00	53.76	B
ATOM	5713	O	TYR	B	195	-17.602	-0.402	-4.097	1.00	54.63	B
ATOM	5714	N	SER	B	196	-15.930	-1.593	-3.164	1.00	54.87	B
ATOM	5715	CA	SER	B	196	-15.619	-2.315	-4.394	1.00	55.26	B
ATOM	5716	CB	SER	B	196	-14.153	-2.738	-4.440	1.00	55.51	B
ATOM	5717	OG	SER	B	196	-13.926	-3.869	-3.614	1.00	58.14	B
ATOM	5718	C	SER	B	196	-16.492	-3.554	-4.227	1.00	55.39	B
ATOM	5719	O	SER	B	196	-16.769	-3.969	-3.096	1.00	53.88	B
ATOM	5720	N	PRO	B	197	-16.934	-4.162	-5.338	1.00	55.48	B
ATOM	5721	CD	PRO	B	197	-16.494	-3.916	-6.721	1.00	55.28	B
ATOM	5722	CA	PRO	B	197	-17.783	-5.358	-5.265	1.00	55.93	B
ATOM	5723	CB	PRO	B	197	-17.569	-5.999	-6.623	1.00	54.78	B
ATOM	5724	CG	PRO	B	197	-17.434	-4.797	-7.511	1.00	54.55	B
ATOM	5725	C	PRO	B	197	-17.424	-6.285	-4.097	1.00	57.53	B
ATOM	5726	O	PRO	B	197	-18.286	-6.635	-3.285	1.00	57.25	B
ATOM	5727	N	LYS	B	198	-16.153	-6.672	-4.006	1.00	59.02	B
ATOM	5728	CA	LYS	B	198	-15.714	-7.535	-2.916	1.00	60.50	B
ATOM	5729	CB	LYS	B	198	-14.196	-7.721	-2.953	1.00	61.81	B
ATOM	5730	CG	LYS	B	198	-13.653	-8.588	-1.825	1.00	63.74	B
ATOM	5731	CD	LYS	B	198	-12.135	-8.750	-1.885	1.00	66.73	B
ATOM	5732	CE	LYS	B	198	-11.625	-9.598	-0.708	1.00	68.93	B
ATOM	5733	NZ	LYS	B	198	-10.139	-9.795	-0.699	1.00	69.77	B
ATOM	5734	C	LYS	B	198	-16.110	-6.890	-1.590	1.00	61.35	B
ATOM	5735	O	LYS	B	198	-16.773	-7.508	-0.752	1.00	61.53	B
ATOM	5736	N	GLN	B	199	-15.706	-5.635	-1.417	1.00	60.92	B
ATOM	5737	CA	GLN	B	199	-15.997	-4.880	-0.203	1.00	60.42	B
ATOM	5738	CB	GLN	B	199	-15.426	-3.469	-0.341	1.00	60.95	B
ATOM	5739	CG	GLN	B	199	-13.982	-3.489	-0.817	1.00	61.86	B
ATOM	5740	CD	GLN	B	199	-13.374	-2.118	-0.946	1.00	61.75	B
ATOM	5741	OE1	GLN	B	199	-13.915	-1.249	-1.636	1.00	61.37	B
ATOM	5742	NE2	GLN	B	199	-12.231	-1.913	-0.290	1.00	61.13	B
ATOM	5743	C	GLN	B	199	-17.493	-4.823	0.109	1.00	59.53	B
ATOM	5744	O	GLN	B	199	-17.901	-4.993	1.262	1.00	58.21	B
ATOM	5745	N	ARG	B	200	-18.304	-4.588	-0.919	1.00	58.29	B
ATOM	5746	CA	ARG	B	200	-19.748	-4.517	-0.735	1.00	58.05	B
ATOM	5747	CB	ARG	B	200	-20.458	-4.273	-2.081	1.00	57.39	B
ATOM	5748	CG	ARG	B	200	-21.977	-4.091	-1.968	1.00	55.64	B
ATOM	5749	CD	ARG	B	200	-22.681	-3.967	-3.327	1.00	54.73	B
ATOM	5750	NE	ARG	B	200	-24.141	-3.969	-3.177	1.00	54.00	B
ATOM	5751	CZ	ARG	B	200	-24.874	-2.930	-2.776	1.00	53.09	B
ATOM	5752	NH1	ARG	B	200	-24.298	-1.771	-2.489	1.00	53.49	B
ATOM	5753	NH2	ARG	B	200	-26.186	-3.059	-2.627	1.00	51.05	B
ATOM	5754	C	ARG	B	200	-20.229	-5.826	-0.119	1.00	59.02	B
ATOM	5755	O	ARG	B	200	-20.897	-5.829	0.922	1.00	59.21	B
ATOM	5756	N	VAL	B	201	-19.877	-6.939	-0.759	1.00	59.63	B
ATOM	5757	CA	VAL	B	201	-20.279	-8.256	-0.272	1.00	60.36	B
ATOM	5758	CB	VAL	B	201	-19.648	-9.390	-1.107	1.00	60.42	B
ATOM	5759	CG1	VAL	B	201	-20.156	-10.726	-0.615	1.00	60.47	B
ATOM	5760	CG2	VAL	B	201	-19.979	-9.212	-2.574	1.00	61.68	B
ATOM	5761	C	VAL	B	201	-19.843	-8.435	1.177	1.00	60.52	B
ATOM	5762	O	VAL	B	201	-20.583	-8.980	2.001	1.00	60.44	B
ATOM	5763	N	GLU	B	202	-18.635	-7.976	1.480	1.00	59.69	B
ATOM	5764	CA	GLU	B	202	-18.111	-8.088	2.825	1.00	60.14	B
ATOM	5765	CB	GLU	B	202	-16.700	-7.504	2.903	1.00	61.76	B
ATOM	5766	CG	GLU	B	202	-16.174	-7.396	4.332	1.00	65.08	B
ATOM	5767	CD	GLU	B	202	-14.733	-6.924	4.402	1.00	67.09	B
ATOM	5768	OE1	GLU	B	202	-14.393	-5.958	3.683	1.00	67.88	B
ATOM	5769	OE2	GLU	B	202	-13.947	-7.511	5.181	1.00	66.78	B
ATOM	5770	C	GLU	B	202	-19.016	-7.370	3.811	1.00	60.76	B
ATOM	5771	O	GLU	B	202	-19.400	-7.938	4.839	1.00	61.30	B
ATOM	5772	N	PHE	B	203	-19.362	-6.122	3.496	1.00	59.85	B

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ATOM   5773  CA  PHE B 203     -20.216  -5.337   4.378  1.00 58.06      B
ATOM   5774  CB  PHE B 203     -20.432  -3.934   3.813  1.00 55.50      B
ATOM   5775  CG  PHE B 203     -21.146  -3.008   4.760  1.00 54.68      B
ATOM   5776  CD1 PHE B 203     -20.524  -2.567   5.920  1.00 54.09      B
ATOM   5777  CD2 PHE B 203     -22.455  -2.602   4.509  1.00 54.58      B
ATOM   5778  CE1 PHE B 203     -21.191  -1.737   6.818  1.00 54.42      B
ATOM   5779  CE2 PHE B 203     -23.129  -1.774   5.400  1.00 53.64      B
ATOM   5780  CZ  PHE B 203     -22.495  -1.342   6.558  1.00 54.15      B
ATOM   5781  C   PHE B 203     -21.567  -6.023   4.581  1.00 58.25      B
ATOM   5782  O   PHE B 203     -22.067  -6.129   5.705  1.00 57.54      B
ATOM   5783  N   LEU B 204     -22.154  -6.496   3.489  1.00 57.58      B
ATOM   5784  CA  LEU B 204     -23.441  -7.164   3.576  1.00 57.70      B
ATOM   5785  CB  LEU B 204     -23.925  -7.560   2.184  1.00 57.05      B
ATOM   5786  CG  LEU B 204     -24.402  -6.401   1.305  1.00 56.85      B
ATOM   5787  CD1 LEU B 204     -24.753  -6.928  -0.075  1.00 55.03      B
ATOM   5788  CD2 LEU B 204     -25.612  -5.709   1.950  1.00 53.76      B
ATOM   5789  C   LEU B 204     -23.395  -8.393   4.470  1.00 57.85      B
ATOM   5790  O   LEU B 204     -24.111  -8.471   5.468  1.00 58.35      B
ATOM   5791  N   VAL B 205     -22.545  -9.350   4.118  1.00 58.30      B
ATOM   5792  CA  VAL B 205     -22.445 -10.577   4.900  1.00 57.97      B
ATOM   5793  CB  VAL B 205     -21.380 -11.529   4.322  1.00 57.37      B
ATOM   5794  CG1 VAL B 205     -21.216 -12.734   5.230  1.00 56.12      B
ATOM   5795  CG2 VAL B 205     -21.795 -11.977   2.927  1.00 55.90      B
ATOM   5796  C   VAL B 205     -22.138 -10.303   6.362  1.00 57.90      B
ATOM   5797  O   VAL B 205     -22.799 -10.849   7.245  1.00 57.12      B
ATOM   5798  N   ASN B 206     -21.142  -9.459   6.619  1.00 58.55      B
ATOM   5799  CA  ASN B 206     -20.786  -9.127   7.992  1.00 59.14      B
ATOM   5800  CB  ASN B 206     -19.615  -8.147   8.026  1.00 59.37      B
ATOM   5801  CG  ASN B 206     -18.284  -8.828   7.818  1.00 60.26      B
ATOM   5802  OD1 ASN B 206     -18.022  -9.880   8.399  1.00 60.88      B
ATOM   5803  ND2 ASN B 206     -17.426  -8.226   6.999  1.00 60.76      B
ATOM   5804  C   ASN B 206     -21.971  -8.529   8.742  1.00 59.61      B
ATOM   5805  O   ASN B 206     -22.216  -8.871   9.896  1.00 59.62      B
ATOM   5806  N   THR B 207     -22.704  -7.636   8.088  1.00 60.40      B
ATOM   5807  CA  THR B 207     -23.852  -7.017   8.726  1.00 62.25      B
ATOM   5808  CB  THR B 207     -24.535  -5.974   7.794  1.00 62.79      B
ATOM   5809  OG1 THR B 207     -23.634  -4.888   7.544  1.00 62.20      B
ATOM   5810  CG2 THR B 207     -25.810  -5.427   8.435  1.00 60.83      B
ATOM   5811  C   THR B 207     -24.850  -8.109   9.086  1.00 63.83      B
ATOM   5812  O   THR B 207     -25.319  -8.184  10.221  1.00 63.99      B
ATOM   5813  N   TRP B 208     -25.164  -8.965   8.121  1.00 65.86      B
ATOM   5814  CA  TRP B 208     -26.110 -10.050   8.357  1.00 68.64      B
ATOM   5815  CB  TRP B 208     -26.229 -10.927   7.101  1.00 69.74      B
ATOM   5816  CG  TRP B 208     -27.336 -11.937   7.182  1.00 70.60      B
ATOM   5817  CD2 TRP B 208     -28.690 -11.765   6.744  1.00 71.15      B
ATOM   5818  CE2 TRP B 208     -29.396 -12.938   7.090  1.00 70.82      B
ATOM   5819  CE3 TRP B 208     -29.383 -10.721   6.116  1.00 70.22      B
ATOM   5820  CD1 TRP B 208     -27.273 -13.180   7.742  1.00 70.85      B
ATOM   5821  NE1 TRP B 208     -28.505 -13.789   7.690  1.00 70.85      B
ATOM   5822  CZ2 TRP B 208     -30.754 -13.111   6.806  1.00 69.74      B
ATOM   5823  CZ3 TRP B 208     -30.734 -10.894   5.837  1.00 70.55      B
ATOM   5824  CH2 TRP B 208     -31.406 -12.077   6.192  1.00 69.57      B
ATOM   5825  C   TRP B 208     -25.687 -10.894   9.568  1.00 69.92      B
ATOM   5826  O   TRP B 208     -26.506 -11.199  10.442  1.00 69.61      B
ATOM   5827  N   LYS B 209     -24.406 -11.255   9.621  1.00 70.85      B
ATOM   5828  CA  LYS B 209     -23.871 -12.055  10.720  1.00 71.50      B
ATOM   5829  CB  LYS B 209     -22.406 -12.396  10.466  1.00 71.93      B
ATOM   5830  CG  LYS B 209     -22.162 -13.283   9.267  1.00 73.32      B
ATOM   5831  CD  LYS B 209     -20.696 -13.663   9.219  1.00 75.92      B
ATOM   5832  CE  LYS B 209     -20.437 -14.784   8.238  1.00 77.34      B
ATOM   5833  NZ  LYS B 209     -19.071 -15.343   8.433  1.00 78.26      B
ATOM   5834  C   LYS B 209     -23.978 -11.343  12.062  1.00 71.61      B
ATOM   5835  O   LYS B 209     -24.471 -11.908  13.034  1.00 71.64      B
ATOM   5836  N   SER B 210     -23.512 -10.100  12.107  1.00 71.79      B
ATOM   5837  CA  SER B 210     -23.540  -9.308  13.330  1.00 72.32      B
ATOM   5838  CB  SER B 210     -23.102  -7.877  13.032  1.00 71.72      B
ATOM   5839  OG  SER B 210     -24.002  -7.250  12.139  1.00 72.05      B
ATOM   5840  C   SER B 210     -24.902  -9.285  14.019  1.00 73.23      B
ATOM   5841  O   SER B 210     -24.992  -8.990  15.209  1.00 73.30      B
ATOM   5842  N   LYS B 211     -25.961  -9.591  13.276  1.00 74.87      B
ATOM   5843  CA  LYS B 211     -27.307  -9.600  13.847  1.00 76.56      B
ATOM   5844  CB  LYS B 211     -28.357  -9.326  12.762  1.00 75.35      B
ATOM   5845  CG  LYS B 211     -28.054  -8.146  11.842  1.00 74.10      B
ATOM   5846  CD  LYS B 211     -28.139  -6.805  12.557  1.00 71.22      B
ATOM   5847  CE  LYS B 211     -27.853  -5.666  11.597  1.00 67.99      B
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ATOM	5848	NZ	LYS	B	211	-28.004	-4.351	12.257	1.00	67.40	B
ATOM	5849	C	LYS	B	211	-27.583	-10.968	14.467	1.00	78.47	B
ATOM	5850	O	LYS	B	211	-27.063	-11.986	13.998	1.00	79.52	B
ATOM	5851	N	LYS	B	212	-28.393	-10.991	15.522	1.00	79.37	B
ATOM	5852	CA	LYS	B	212	-28.741	-12.247	16.180	1.00	79.58	B
ATOM	5853	CB	LYS	B	212	-29.475	-11.971	17.491	1.00	80.94	B
ATOM	5854	CG	LYS	B	212	-28.661	-11.148	18.484	1.00	83.21	B
ATOM	5855	CD	LYS	B	212	-29.400	-10.977	19.805	1.00	84.72	B
ATOM	5856	CE	LYS	B	212	-28.550	-10.235	20.830	1.00	85.42	B
ATOM	5857	NZ	LYS	B	212	-29.204	-10.211	22.172	1.00	85.94	B
ATOM	5858	C	LYS	B	212	-29.633	-13.017	15.214	1.00	79.57	B
ATOM	5859	O	LYS	B	212	-29.188	-13.975	14.583	1.00	81.02	B
ATOM	5860	N	CYS	B	213	-30.892	-12.602	15.103	1.00	78.55	B
ATOM	5861	CA	CYS	B	213	-31.820	-13.226	14.164	1.00	76.45	B
ATOM	5862	CB	CYS	B	213	-33.140	-13.613	14.842	1.00	76.64	B
ATOM	5863	SG	CYS	B	213	-34.262	-14.580	13.767	1.00	75.74	B
ATOM	5864	C	CYS	B	213	-32.074	-12.159	13.105	1.00	75.22	B
ATOM	5865	O	CYS	B	213	-32.985	-11.338	13.237	1.00	74.74	B
ATOM	5866	N	PRO	B	214	-31.257	-12.155	12.041	1.00	73.67	B
ATOM	5867	CD	PRO	B	214	-30.263	-13.188	11.707	1.00	73.09	B
ATOM	5868	CA	PRO	B	214	-31.373	-11.188	10.948	1.00	72.47	B
ATOM	5869	CB	PRO	B	214	-30.268	-11.617	9.987	1.00	72.10	B
ATOM	5870	CG	PRO	B	214	-30.201	-13.086	10.203	1.00	72.40	B
ATOM	5871	C	PRO	B	214	-32.727	-11.134	10.271	1.00	71.18	B
ATOM	5872	O	PRO	B	214	-33.618	-11.935	10.546	1.00	72.34	B
ATOM	5873	N	MET	B	215	-32.858	-10.161	9.381	1.00	68.91	B
ATOM	5874	CA	MET	B	215	-34.066	-9.934	8.607	1.00	66.07	B
ATOM	5875	CB	MET	B	215	-35.222	-9.499	9.501	1.00	66.10	B
ATOM	5876	CG	MET	B	215	-36.533	-9.327	8.757	1.00	67.69	B
ATOM	5877	SD	MET	B	215	-36.529	-8.002	7.518	1.00	69.21	B
ATOM	5878	CE	MET	B	215	-37.232	-6.645	8.492	1.00	66.67	B
ATOM	5879	C	MET	B	215	-33.681	-8.802	7.682	1.00	64.42	B
ATOM	5880	O	MET	B	215	-33.169	-7.773	8.129	1.00	64.24	B
ATOM	5881	N	GLY	B	216	-33.914	-8.990	6.392	1.00	62.03	B
ATOM	5882	CA	GLY	B	216	-33.548	-7.957	5.450	1.00	60.34	B
ATOM	5883	C	GLY	B	216	-34.558	-7.739	4.355	1.00	58.64	B
ATOM	5884	O	GLY	B	216	-35.474	-8.535	4.163	1.00	58.97	B
ATOM	5885	N	PHE	B	217	-34.386	-6.638	3.638	1.00	56.83	B
ATOM	5886	CA	PHE	B	217	-35.271	-6.298	2.540	1.00	54.48	B
ATOM	5887	CB	PHE	B	217	-36.662	-5.906	3.053	1.00	55.54	B
ATOM	5888	CG	PHE	B	217	-36.664	-4.701	3.957	1.00	56.40	B
ATOM	5889	CD1	PHE	B	217	-36.307	-4.818	5.297	1.00	56.89	B
ATOM	5890	CD2	PHE	B	217	-37.020	-3.449	3.465	1.00	57.17	B
ATOM	5891	CE1	PHE	B	217	-36.301	-3.707	6.135	1.00	57.84	B
ATOM	5892	CE2	PHE	B	217	-37.017	-2.330	4.290	1.00	58.26	B
ATOM	5893	CZ	PHE	B	217	-36.658	-2.457	5.631	1.00	58.89	B
ATOM	5894	C	PHE	B	217	-34.684	-5.141	1.770	1.00	51.88	B
ATOM	5895	O	PHE	B	217	-33.886	-4.371	2.292	1.00	51.42	B
ATOM	5896	N	SER	B	218	-35.076	-5.039	0.513	1.00	49.51	B
ATOM	5897	CA	SER	B	218	-34.623	-3.962	-0.334	1.00	47.13	B
ATOM	5898	CB	SER	B	218	-34.183	-4.512	-1.691	1.00	47.49	B
ATOM	5899	OG	SER	B	218	-35.256	-5.144	-2.368	1.00	48.89	B
ATOM	5900	C	SER	B	218	-35.862	-3.104	-0.473	1.00	45.74	B
ATOM	5901	O	SER	B	218	-36.972	-3.594	-0.270	1.00	46.00	B
ATOM	5902	N	TYR	B	219	-35.691	-1.826	-0.778	1.00	44.39	B
ATOM	5903	CA	TYR	B	219	-36.847	-0.961	-0.931	1.00	44.02	B
ATOM	5904	CB	TYR	B	219	-36.921	0.069	0.196	1.00	43.34	B
ATOM	5905	CG	TYR	B	219	-38.215	0.856	0.204	1.00	43.12	B
ATOM	5906	CD1	TYR	B	219	-39.361	0.350	0.806	1.00	42.32	B
ATOM	5907	CE1	TYR	B	219	-40.556	1.054	0.777	1.00	44.04	B
ATOM	5908	CD2	TYR	B	219	-38.297	2.095	-0.424	1.00	44.70	B
ATOM	5909	CE2	TYR	B	219	-39.483	2.809	-0.461	1.00	43.91	B
ATOM	5910	CZ	TYR	B	219	-40.611	2.285	0.136	1.00	45.28	B
ATOM	5911	OH	TYR	B	219	-41.799	2.985	0.060	1.00	45.93	B
ATOM	5912	C	TYR	B	219	-36.773	-0.259	-2.266	1.00	45.05	B
ATOM	5913	O	TYR	B	219	-35.886	0.557	-2.521	1.00	46.17	B
ATOM	5914	N	ASP	B	220	-37.715	-0.602	-3.126	1.00	45.95	B
ATOM	5915	CA	ASP	B	220	-37.792	-0.033	-4.455	1.00	46.73	B
ATOM	5916	CB	ASP	B	220	-38.259	-1.110	-5.434	1.00	48.12	B
ATOM	5917	CG	ASP	B	220	-38.704	-0.547	-6.774	1.00	50.81	B
ATOM	5918	OD1	ASP	B	220	-37.852	-0.020	-7.526	1.00	52.28	B
ATOM	5919	OD2	ASP	B	220	-39.916	-0.643	-7.076	1.00	51.64	B
ATOM	5920	C	ASP	B	220	-38.775	1.123	-4.423	1.00	47.09	B
ATOM	5921	O	ASP	B	220	-39.972	0.927	-4.201	1.00	47.79	B
ATOM	5922	N	THR	B	221	-38.263	2.333	-4.622	1.00	46.34	B

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ATOM   5923  CA  THR B 221     -39.112   3.511  -4.631  1.00 45.05      B
ATOM   5924  CB  THR B 221     -38.318   4.773  -4.264  1.00 45.09      B
ATOM   5925  OG1 THR B 221     -37.646   4.572  -3.013  1.00 44.38      B
ATOM   5926  CG2 THR B 221     -39.251   5.970  -4.155  1.00 44.72      B
ATOM   5927  C   THR B 221     -39.658   3.650  -6.047  1.00 46.11      B
ATOM   5928  O   THR B 221     -38.978   3.345  -7.024  1.00 47.39      B
ATOM   5929  N   ARG B 222     -40.892   4.107  -6.161  1.00 47.30      B
ATOM   5930  CA  ARG B 222     -41.517   4.255  -7.462  1.00 47.05      B
ATOM   5931  CB  ARG B 222     -43.035   4.276  -7.287  1.00 48.35      B
ATOM   5932  CG  ARG B 222     -43.809   4.476  -8.566  1.00 50.58      B
ATOM   5933  CD  ARG B 222     -45.281   4.649  -8.267  1.00 52.59      B
ATOM   5934  NE  ARG B 222     -46.052   4.907  -9.477  1.00 57.08      B
ATOM   5935  CZ  ARG B 222     -45.852   5.947 -10.279  1.00 60.31      B
ATOM   5936  NH1 ARG B 222     -44.899   6.828  -9.995  1.00 63.62      B
ATOM   5937  NH2 ARG B 222     -46.602   6.109 -11.362  1.00 59.66      B
ATOM   5938  C   ARG B 222     -41.062   5.522  -8.167  1.00 46.34      B
ATOM   5939  O   ARG B 222     -41.579   6.600  -7.888  1.00 48.49      B
ATOM   5940  N   CYS B 223     -40.107   5.397  -9.081  1.00 44.45      B
ATOM   5941  CA  CYS B 223     -39.607   6.557  -9.820  1.00 43.84      B
ATOM   5942  CB  CYS B 223     -40.728   7.175 -10.656  1.00 45.35      B
ATOM   5943  SG  CYS B 223     -41.630   6.021 -11.686  1.00 50.57      B
ATOM   5944  C   CYS B 223     -39.045   7.632  -8.883  1.00 42.58      B
ATOM   5945  O   CYS B 223     -39.463   8.792  -8.924  1.00 40.95      B
ATOM   5946  N   PHE B 224     -38.087   7.234  -8.054  1.00 41.01      B
ATOM   5947  CA  PHE B 224     -37.455   8.118  -7.084  1.00 38.39      B
ATOM   5948  CB  PHE B 224     -36.117   7.501  -6.653  1.00 36.03      B
ATOM   5949  CG  PHE B 224     -35.569   8.073  -5.381  1.00 35.51      B
ATOM   5950  CD1 PHE B 224     -34.908   9.302  -5.379  1.00 34.44      B
ATOM   5951  CD2 PHE B 224     -35.728   7.391  -4.176  1.00 33.31      B
ATOM   5952  CE1 PHE B 224     -34.410   9.841  -4.197  1.00 32.68      B
ATOM   5953  CE2 PHE B 224     -35.234   7.921  -2.987  1.00 31.00      B
ATOM   5954  CZ  PHE B 224     -34.575   9.148  -2.997  1.00 32.29      B
ATOM   5955  C   PHE B 224     -37.258   9.577  -7.545  1.00 37.56      B
ATOM   5956  O   PHE B 224     -37.721  10.515  -6.886  1.00 36.31      B
ATOM   5957  N   ASP B 225     -36.586   9.775  -8.674  1.00 36.05      B
ATOM   5958  CA  ASP B 225     -36.345  11.125  -9.159  1.00 34.89      B
ATOM   5959  CB  ASP B 225     -35.731  11.081 -10.557  1.00 34.80      B
ATOM   5960  CG  ASP B 225     -34.267  10.683 -10.534  1.00 37.09      B
ATOM   5961  OD1 ASP B 225     -33.717  10.495  -9.424  1.00 37.18      B
ATOM   5962  OD2 ASP B 225     -33.661  10.569 -11.622  1.00 34.69      B
ATOM   5963  C   ASP B 225     -37.580  12.013  -9.162  1.00 34.71      B
ATOM   5964  O   ASP B 225     -37.526  13.167  -8.731  1.00 35.45      B
ATOM   5965  N   SER B 226     -38.699  11.487  -9.635  1.00 35.28      B
ATOM   5966  CA  SER B 226     -39.919  12.285  -9.682  1.00 37.25      B
ATOM   5967  CB  SER B 226     -40.947  11.642 -10.613  1.00 38.74      B
ATOM   5968  OG  SER B 226     -41.279  10.338 -10.176  1.00 43.09      B
ATOM   5969  C   SER B 226     -40.523  12.466  -8.300  1.00 37.68      B
ATOM   5970  O   SER B 226     -41.368  13.336  -8.092  1.00 38.45      B
ATOM   5971  N   THR B 227     -40.088  11.653  -7.347  1.00 37.49      B
ATOM   5972  CA  THR B 227     -40.625  11.773  -6.004  1.00 37.27      B
ATOM   5973  CB  THR B 227     -40.624  10.424  -5.260  1.00 37.22      B
ATOM   5974  OG1 THR B 227     -39.284  10.015  -4.973  1.00 36.00      B
ATOM   5975  CG2 THR B 227     -41.302   9.372  -6.114  1.00 39.60      B
ATOM   5976  C   THR B 227     -39.878  12.800  -5.176  1.00 36.90      B
ATOM   5977  O   THR B 227     -40.369  13.212  -4.124  1.00 38.18      B
ATOM   5978  N   VAL B 228     -38.697  13.213  -5.643  1.00 35.14      B
ATOM   5979  CA  VAL B 228     -37.911  14.219  -4.923  1.00 33.26      B
ATOM   5980  CB  VAL B 228     -36.484  14.348  -5.500  1.00 32.84      B
ATOM   5981  CG1 VAL B 228     -35.745  15.480  -4.807  1.00 30.62      B
ATOM   5982  CG2 VAL B 228     -35.731  13.036  -5.299  1.00 30.45      B
ATOM   5983  C   VAL B 228     -38.639  15.551  -5.031  1.00 31.15      B
ATOM   5984  O   VAL B 228     -38.941  16.011  -6.118  1.00 32.46      B
ATOM   5985  N   THR B 229     -38.922  16.164  -3.892  1.00 30.23      B
ATOM   5986  CA  THR B 229     -39.667  17.420  -3.854  1.00 29.36      B
ATOM   5987  CB  THR B 229     -40.647  17.398  -2.672  1.00 26.07      B
ATOM   5988  OG1 THR B 229     -39.912  17.330  -1.443  1.00 25.24      B
ATOM   5989  CG2 THR B 229     -41.529  16.182  -2.754  1.00 23.09      B
ATOM   5990  C   THR B 229     -38.802  18.674  -3.738  1.00 30.32      B
ATOM   5991  O   THR B 229     -37.616  18.586  -3.420  1.00 30.48      B
ATOM   5992  N   GLU B 230     -39.395  19.838  -4.007  1.00 30.17      B
ATOM   5993  CA  GLU B 230     -38.665  21.093  -3.880  1.00 31.76      B
ATOM   5994  CB  GLU B 230     -39.587  22.299  -4.087  1.00 35.72      B
ATOM   5995  CG  GLU B 230     -40.134  22.437  -5.499  1.00 38.97      B
ATOM   5996  CD  GLU B 230     -41.449  21.716  -5.679  1.00 43.20      B
ATOM   5997  OE1 GLU B 230     -41.604  20.604  -5.113  1.00 45.45      B
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ATOM   5998  OE2 GLU B 230     -42.323  22.262  -6.392  1.00 42.16      B
ATOM   5999  C   GLU B 230     -38.101  21.138  -2.467  1.00 30.91      B
ATOM   6000  O   GLU B 230     -36.976  21.575  -2.236  1.00 31.86      B
ATOM   6001  N   SER B 231     -38.899  20.677  -1.517  1.00 29.42      B
ATOM   6002  CA  SER B 231     -38.455  20.646  -0.146  1.00 28.89      B
ATOM   6003  CB  SER B 231     -39.568  20.122   0.751  1.00 29.51      B
ATOM   6004  OG  SER B 231     -39.098  19.932   2.074  1.00 27.67      B
ATOM   6005  C   SER B 231     -37.220  19.761   0.000  1.00 30.13      B
ATOM   6006  O   SER B 231     -36.239  20.170   0.616  1.00 30.12      B
ATOM   6007  N   ASP B 232     -37.268  18.555  -0.567  1.00 30.10      B
ATOM   6008  CA  ASP B 232     -36.146  17.623  -0.473  1.00 31.56      B
ATOM   6009  CB  ASP B 232     -36.425  16.350  -1.271  1.00 32.89      B
ATOM   6010  CG  ASP B 232     -37.572  15.560  -0.712  1.00 34.31      B
ATOM   6011  OD1 ASP B 232     -37.738  15.577   0.526  1.00 36.40      B
ATOM   6012  OD2 ASP B 232     -38.291  14.913  -1.502  1.00 33.83      B
ATOM   6013  C   ASP B 232     -34.840  18.222  -0.969  1.00 32.56      B
ATOM   6014  O   ASP B 232     -33.792  18.085  -0.331  1.00 33.37      B
ATOM   6015  N   ILE B 233     -34.911  18.880  -2.117  1.00 31.66      B
ATOM   6016  CA  ILE B 233     -33.746  19.498  -2.712  1.00 31.13      B
ATOM   6017  CB  ILE B 233     -34.074  19.870  -4.166  1.00 29.88      B
ATOM   6018  CG2 ILE B 233     -33.059  20.838  -4.736  1.00 27.90      B
ATOM   6019  CG1 ILE B 233     -34.115  18.585  -4.985  1.00 27.16      B
ATOM   6020  CD1 ILE B 233     -34.989  18.677  -6.190  1.00 29.47      B
ATOM   6021  C   ILE B 233     -33.244  20.696  -1.891  1.00 32.12      B
ATOM   6022  O   ILE B 233     -32.044  20.995  -1.886  1.00 31.66      B
ATOM   6023  N   ARG B 234     -34.149  21.370  -1.186  1.00 31.28      B
ATOM   6024  CA  ARG B 234     -33.740  22.494  -0.348  1.00 31.59      B
ATOM   6025  CB  ARG B 234     -34.913  23.429  -0.087  1.00 30.69      B
ATOM   6026  CG  ARG B 234     -35.038  24.483  -1.136  1.00 30.28      B
ATOM   6027  CD  ARG B 234     -36.333  25.214  -1.020  1.00 31.95      B
ATOM   6028  NE  ARG B 234     -36.491  26.163  -2.115  1.00 33.54      B
ATOM   6029  CZ  ARG B 234     -37.641  26.380  -2.743  1.00 32.49      B
ATOM   6030  NH1 ARG B 234     -38.731  25.712  -2.384  1.00 32.09      B
ATOM   6031  NH2 ARG B 234     -37.701  27.265  -3.727  1.00 30.78      B
ATOM   6032  C   ARG B 234     -33.163  21.993   0.972  1.00 31.55      B
ATOM   6033  O   ARG B 234     -32.270  22.621   1.547  1.00 31.90      B
ATOM   6034  N   VAL B 235     -33.686  20.868   1.452  1.00 31.15      B
ATOM   6035  CA  VAL B 235     -33.195  20.261   2.681  1.00 30.99      B
ATOM   6036  CB  VAL B 235     -34.069  19.060   3.099  1.00 31.69      B
ATOM   6037  CG1 VAL B 235     -33.312  18.150   4.064  1.00 29.77      B
ATOM   6038  CG2 VAL B 235     -35.357  19.571   3.744  1.00 30.51      B
ATOM   6039  C   VAL B 235     -31.798  19.783   2.343  1.00 31.49      B
ATOM   6040  O   VAL B 235     -30.860  19.960   3.112  1.00 32.51      B
ATOM   6041  N   GLU B 236     -31.670  19.183   1.170  1.00 31.80      B
ATOM   6042  CA  GLU B 236     -30.389  18.696   0.692  1.00 33.14      B
ATOM   6043  CB  GLU B 236     -30.583  18.155  -0.722  1.00 34.08      B
ATOM   6044  CG  GLU B 236     -29.332  17.746  -1.454  1.00 36.29      B
ATOM   6045  CD  GLU B 236     -29.646  17.226  -2.848  1.00 39.82      B
ATOM   6046  OE1 GLU B 236     -28.733  17.236  -3.709  1.00 41.89      B
ATOM   6047  OE2 GLU B 236     -30.807  16.804  -3.077  1.00 38.43      B
ATOM   6048  C   GLU B 236     -29.365  19.847   0.713  1.00 34.14      B
ATOM   6049  O   GLU B 236     -28.242  19.705   1.220  1.00 34.37      B
ATOM   6050  N   GLU B 237     -29.765  20.995   0.179  1.00 32.57      B
ATOM   6051  CA  GLU B 237     -28.887  22.150   0.160  1.00 31.86      B
ATOM   6052  CB  GLU B 237     -29.601  23.376  -0.398  1.00 33.03      B
ATOM   6053  CG  GLU B 237     -28.654  24.478  -0.842  1.00 34.48      B
ATOM   6054  CD  GLU B 237     -29.280  25.843  -0.773  1.00 35.87      B
ATOM   6055  OE1 GLU B 237     -30.509  25.942  -0.941  1.00 37.23      B
ATOM   6056  OE2 GLU B 237     -28.538  26.821  -0.560  1.00 36.99      B
ATOM   6057  C   GLU B 237     -28.424  22.483   1.562  1.00 31.47      B
ATOM   6058  O   GLU B 237     -27.259  22.795   1.767  1.00 33.34      B
ATOM   6059  N   SER B 238     -29.341  22.425   2.525  1.00 30.95      B
ATOM   6060  CA  SER B 238     -29.005  22.758   3.901  1.00 29.06      B
ATOM   6061  CB  SER B 238     -30.240  22.660   4.796  1.00 30.02      B
ATOM   6062  OG  SER B 238     -30.640  21.321   4.985  1.00 33.11      B
ATOM   6063  C   SER B 238     -27.901  21.851   4.409  1.00 28.66      B
ATOM   6064  O   SER B 238     -27.131  22.214   5.299  1.00 27.87      B
ATOM   6065  N   ILE B 239     -27.805  20.665   3.838  1.00 27.89      B
ATOM   6066  CA  ILE B 239     -26.746  19.783   4.272  1.00 29.41      B
ATOM   6067  CB  ILE B 239     -27.016  18.327   3.850  1.00 28.14      B
ATOM   6068  CG2 ILE B 239     -25.917  17.419   4.391  1.00 26.20      B
ATOM   6069  CG1 ILE B 239     -28.383  17.898   4.390  1.00 26.44      B
ATOM   6070  CD1 ILE B 239     -28.754  16.488   4.099  1.00 24.27      B
ATOM   6071  C   ILE B 239     -25.436  20.292   3.664  1.00 30.69      B
ATOM   6072  O   ILE B 239     -24.427  20.375   4.351  1.00 33.28      B
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ATOM   6073  N   TYR B 240     -25.459  20.653   2.385  1.00 29.97      B
ATOM   6074  CA  TYR B 240     -24.264  21.159   1.723  1.00 28.78      B
ATOM   6075  CB  TYR B 240     -24.542  21.448   0.247  1.00 29.34      B
ATOM   6076  CG  TYR B 240     -25.071  20.277  -0.552  1.00 31.85      B
ATOM   6077  CD1 TYR B 240     -24.683  18.965  -0.259  1.00 32.75      B
ATOM   6078  CE1 TYR B 240     -25.114  17.891  -1.050  1.00 33.14      B
ATOM   6079  CD2 TYR B 240     -25.904  20.484  -1.650  1.00 31.23      B
ATOM   6080  CE2 TYR B 240     -26.335  19.421  -2.444  1.00 31.46      B
ATOM   6081  CZ  TYR B 240     -25.935  18.132  -2.139  1.00 32.13      B
ATOM   6082  OH  TYR B 240     -26.338  17.089  -2.935  1.00 33.42      B
ATOM   6083  C   TYR B 240     -23.776  22.443   2.379  1.00 29.06      B
ATOM   6084  O   TYR B 240     -22.576  22.639   2.553  1.00 29.14      B
ATOM   6085  N   GLN B 241     -24.714  23.318   2.733  1.00 28.24      B
ATOM   6086  CA  GLN B 241     -24.393  24.594   3.353  1.00 27.60      B
ATOM   6087  CB  GLN B 241     -25.660  25.427   3.483  1.00 28.19      B
ATOM   6088  CG  GLN B 241     -26.216  25.909   2.143  1.00 31.28      B
ATOM   6089  CD  GLN B 241     -25.310  26.926   1.459  1.00 32.10      B
ATOM   6090  OE1 GLN B 241     -24.283  27.327   2.006  1.00 35.41      B
ATOM   6091  NE2 GLN B 241     -25.691  27.350   0.261  1.00 30.17      B
ATOM   6092  C   GLN B 241     -23.687  24.480   4.706  1.00 29.43      B
ATOM   6093  O   GLN B 241     -23.160  25.471   5.231  1.00 29.75      B
ATOM   6094  N   CYS B 242     -23.662  23.277   5.270  1.00 27.96      B
ATOM   6095  CA  CYS B 242     -22.985  23.069   6.539  1.00 27.42      B
ATOM   6096  CB  CYS B 242     -23.471  21.781   7.205  1.00 28.77      B
ATOM   6097  SG  CYS B 242     -25.151  21.898   7.884  1.00 33.59      B
ATOM   6098  C   CYS B 242     -21.478  23.007   6.309  1.00 26.95      B
ATOM   6099  O   CYS B 242     -20.683  23.166   7.235  1.00 26.58      B
ATOM   6100  N   CYS B 243     -21.083  22.787   5.065  1.00 25.99      B
ATOM   6101  CA  CYS B 243     -19.669  22.726   4.739  1.00 27.75      B
ATOM   6102  CB  CYS B 243     -19.465  22.206   3.313  1.00 26.31      B
ATOM   6103  SG  CYS B 243     -19.929  20.504   3.025  1.00 33.47      B
ATOM   6104  C   CYS B 243     -19.025  24.102   4.827  1.00 28.58      B
ATOM   6105  O   CYS B 243     -19.699  25.130   4.795  1.00 28.16      B
ATOM   6106  N   ASP B 244     -17.706  24.112   4.951  1.00 31.27      B
ATOM   6107  CA  ASP B 244     -16.980  25.362   4.950  1.00 31.78      B
ATOM   6108  CB  ASP B 244     -15.612  25.214   5.607  1.00 31.84      B
ATOM   6109  CG  ASP B 244     -14.818  26.506   5.576  1.00 32.38      B
ATOM   6110  OD1 ASP B 244     -14.217  26.838   4.526  1.00 30.55      B
ATOM   6111  OD2 ASP B 244     -14.814  27.198   6.614  1.00 34.07      B
ATOM   6112  C   ASP B 244     -16.804  25.592   3.455  1.00 32.15      B
ATOM   6113  O   ASP B 244     -16.060  24.871   2.790  1.00 32.91      B
ATOM   6114  N   LEU B 245     -17.503  26.582   2.922  1.00 31.50      B
ATOM   6115  CA  LEU B 245     -17.417  26.851   1.501  1.00 30.91      B
ATOM   6116  CB  LEU B 245     -18.805  26.738   0.878  1.00 28.27      B
ATOM   6117  CG  LEU B 245     -19.442  25.383   1.147  1.00 27.74      B
ATOM   6118  CD1 LEU B 245     -20.942  25.490   1.001  1.00 28.35      B
ATOM   6119  CD2 LEU B 245     -18.853  24.346   0.209  1.00 26.86      B
ATOM   6120  C   LEU B 245     -16.837  28.214   1.181  1.00 30.22      B
ATOM   6121  O   LEU B 245     -16.901  29.139   1.986  1.00 29.21      B
ATOM   6122  N   ALA B 246     -16.256  28.319  -0.005  1.00 29.43      B
ATOM   6123  CA  ALA B 246     -15.712  29.583  -0.457  1.00 31.00      B
ATOM   6124  CB  ALA B 246     -14.993  29.387  -1.793  1.00 29.63      B
ATOM   6125  C   ALA B 246     -16.942  30.483  -0.640  1.00 31.69      B
ATOM   6126  O   ALA B 246     -18.036  29.988  -0.934  1.00 33.68      B
ATOM   6127  N   PRO B 247     -16.793  31.806  -0.467  1.00 30.23      B
ATOM   6128  CD  PRO B 247     -15.654  32.595   0.018  1.00 28.26      B
ATOM   6129  CA  PRO B 247     -17.969  32.664  -0.648  1.00 31.12      B
ATOM   6130  CB  PRO B 247     -17.384  34.072  -0.539  1.00 27.21      B
ATOM   6131  CG  PRO B 247     -16.333  33.889   0.451  1.00 27.66      B
ATOM   6132  C   PRO B 247     -18.714  32.430  -1.975  1.00 31.26      B
ATOM   6133  O   PRO B 247     -19.932  32.249  -1.987  1.00 30.81      B
ATOM   6134  N   GLU B 248     -17.989  32.416  -3.087  1.00 31.24      B
ATOM   6135  CA  GLU B 248     -18.642  32.222  -4.373  1.00 33.04      B
ATOM   6136  CB  GLU B 248     -17.671  32.491  -5.520  1.00 33.92      B
ATOM   6137  CG  GLU B 248     -16.931  33.791  -5.400  1.00 32.40      B
ATOM   6138  CD  GLU B 248     -16.570  34.364  -6.737  1.00 34.54      B
ATOM   6139  OE1 GLU B 248     -16.340  33.579  -7.687  1.00 34.74      B
ATOM   6140  OE2 GLU B 248     -16.510  35.605  -6.833  1.00 35.83      B
ATOM   6141  C   GLU B 248     -19.213  30.819  -4.509  1.00 33.88      B
ATOM   6142  O   GLU B 248     -20.240  30.614  -5.161  1.00 36.35      B
ATOM   6143  N   ALA B 249     -18.548  29.846  -3.903  1.00 32.41      B
ATOM   6144  CA  ALA B 249     -19.036  28.485  -3.974  1.00 30.94      B
ATOM   6145  CB  ALA B 249     -18.046  27.546  -3.320  1.00 30.59      B
ATOM   6146  C   ALA B 249     -20.371  28.453  -3.242  1.00 30.43      B
ATOM   6147  O   ALA B 249     -21.347  27.873  -3.709  1.00 30.30      B
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ATOM   6148  N   ARG B 250     -20.421  29.107  -2.094  1.00 28.91      B
ATOM   6149  CA  ARG B 250     -21.646  29.120  -1.328  1.00 29.27      B
ATOM   6150  CB  ARG B 250     -21.450  29.920  -0.047  1.00 27.70      B
ATOM   6151  CG  ARG B 250     -22.413  29.562   1.056  1.00 27.09      B
ATOM   6152  CD  ARG B 250     -22.143  30.385   2.315  1.00 26.52      B
ATOM   6153  NE  ARG B 250     -21.103  29.836   3.186  1.00 23.21      B
ATOM   6154  CZ  ARG B 250     -21.220  28.705   3.869  1.00 21.87      B
ATOM   6155  NH1 ARG B 250     -22.329  27.990   3.777  1.00 21.30      B
ATOM   6156  NH2 ARG B 250     -20.242  28.309   4.669  1.00 19.82      B
ATOM   6157  C   ARG B 250     -22.770  29.719  -2.165  1.00 30.92      B
ATOM   6158  O   ARG B 250     -23.881  29.186  -2.212  1.00 32.05      B
ATOM   6159  N   GLN B 251     -22.479  30.819  -2.849  1.00 31.65      B
ATOM   6160  CA  GLN B 251     -23.497  31.466  -3.658  1.00 32.03      B
ATOM   6161  CB  GLN B 251     -23.016  32.819  -4.155  1.00 30.86      B
ATOM   6162  CG  GLN B 251     -24.092  33.530  -4.936  1.00 29.84      B
ATOM   6163  CD  GLN B 251     -25.289  33.833  -4.073  1.00 32.63      B
ATOM   6164  OE1 GLN B 251     -26.426  33.529  -4.434  1.00 35.03      B
ATOM   6165  NE2 GLN B 251     -25.041  34.436  -2.916  1.00 32.73      B
ATOM   6166  C   GLN B 251     -23.896  30.622  -4.861  1.00 33.45      B
ATOM   6167  O   GLN B 251     -25.067  30.580  -5.247  1.00 32.98      B
ATOM   6168  N   ALA B 252     -22.912  29.963  -5.462  1.00 33.16      B
ATOM   6169  CA  ALA B 252     -23.162  29.129  -6.626  1.00 32.49      B
ATOM   6170  CB  ALA B 252     -21.856  28.555  -7.142  1.00 31.38      B
ATOM   6171  C   ALA B 252     -24.130  28.013  -6.252  1.00 31.39      B
ATOM   6172  O   ALA B 252     -25.080  27.718  -6.983  1.00 32.30      B
ATOM   6173  N   ILE B 253     -23.892  27.399  -5.103  1.00 29.92      B
ATOM   6174  CA  ILE B 253     -24.751  26.323  -4.634  1.00 28.12      B
ATOM   6175  CB  ILE B 253     -24.144  25.687  -3.356  1.00 27.44      B
ATOM   6176  CG2 ILE B 253     -25.108  24.692  -2.743  1.00 26.76      B
ATOM   6177  CG1 ILE B 253     -22.830  24.988  -3.725  1.00 26.32      B
ATOM   6178  CD1 ILE B 253     -21.961  24.610  -2.558  1.00 25.76      B
ATOM   6179  C   ILE B 253     -26.170  26.852  -4.383  1.00 27.27      B
ATOM   6180  O   ILE B 253     -27.152  26.195  -4.718  1.00 25.22      B
ATOM   6181  N   ARG B 254     -26.266  28.056  -3.819  1.00 27.27      B
ATOM   6182  CA  ARG B 254     -27.552  28.686  -3.532  1.00 26.18      B
ATOM   6183  CB  ARG B 254     -27.326  30.046  -2.879  1.00 23.44      B
ATOM   6184  CG  ARG B 254     -28.588  30.800  -2.515  1.00 23.88      B
ATOM   6185  CD  ARG B 254     -29.233  30.262  -1.248  1.00 26.34      B
ATOM   6186  NE  ARG B 254     -30.068  29.076  -1.436  1.00 26.77      B
ATOM   6187  CZ  ARG B 254     -31.354  29.113  -1.769  1.00 26.97      B
ATOM   6188  NH1 ARG B 254     -31.955  30.280  -1.956  1.00 28.34      B
ATOM   6189  NH2 ARG B 254     -32.045  27.988  -1.899  1.00 24.50      B
ATOM   6190  C   ARG B 254     -28.344  28.866  -4.829  1.00 27.35      B
ATOM   6191  O   ARG B 254     -29.467  28.390  -4.954  1.00 29.59      B
ATOM   6192  N   SER B 255     -27.746  29.559  -5.791  1.00 27.05      B
ATOM   6193  CA  SER B 255     -28.379  29.808  -7.075  1.00 25.73      B
ATOM   6194  CB  SER B 255     -27.476  30.685  -7.931  1.00 25.65      B
ATOM   6195  OG  SER B 255     -27.308  31.961  -7.330  1.00 25.39      B
ATOM   6196  C   SER B 255     -28.726  28.527  -7.827  1.00 27.00      B
ATOM   6197  O   SER B 255     -29.884  28.311  -8.196  1.00 28.76      B
ATOM   6198  N   LEU B 256     -27.736  27.677  -8.068  1.00 25.46      B
ATOM   6199  CA  LEU B 256     -28.006  26.424  -8.769  1.00 24.98      B
ATOM   6200  CB  LEU B 256     -26.796  25.491  -8.698  1.00 23.22      B
ATOM   6201  CG  LEU B 256     -25.510  25.936  -9.386  1.00 21.16      B
ATOM   6202  CD1 LEU B 256     -24.380  25.012  -8.972  1.00 20.02      B
ATOM   6203  CD2 LEU B 256     -25.705  25.925 -10.875  1.00 16.51      B
ATOM   6204  C   LEU B 256     -29.209  25.713  -8.153  1.00 26.02      B
ATOM   6205  O   LEU B 256     -30.022  25.124  -8.870  1.00 28.90      B
ATOM   6206  N   THR B 257     -29.312  25.758  -6.827  1.00 25.21      B
ATOM   6207  CA  THR B 257     -30.410  25.113  -6.125  1.00 25.96      B
ATOM   6208  CB  THR B 257     -30.293  25.311  -4.590  1.00 26.71      B
ATOM   6209  OG1 THR B 257     -29.158  24.587  -4.103  1.00 27.50      B
ATOM   6210  CG2 THR B 257     -31.543  24.798  -3.869  1.00 24.00      B
ATOM   6211  C   THR B 257     -31.747  25.661  -6.599  1.00 27.44      B
ATOM   6212  O   THR B 257     -32.627  24.902  -7.006  1.00 30.59      B
ATOM   6213  N   GLU B 258     -31.899  26.979  -6.561  1.00 27.81      B
ATOM   6214  CA  GLU B 258     -33.153  27.607  -6.976  1.00 29.78      B
ATOM   6215  CB  GLU B 258     -33.226  29.047  -6.443  1.00 32.77      B
ATOM   6216  CG  GLU B 258     -33.357  29.167  -4.927  1.00 35.11      B
ATOM   6217  CD  GLU B 258     -34.522  28.369  -4.371  1.00 36.34      B
ATOM   6218  OE1 GLU B 258     -35.590  28.354  -5.015  1.00 36.46      B
ATOM   6219  OE2 GLU B 258     -34.372  27.766  -3.284  1.00 38.10      B
ATOM   6220  C   GLU B 258     -33.404  27.633  -8.489  1.00 29.29      B
ATOM   6221  O   GLU B 258     -34.532  27.443  -8.929  1.00 26.53      B
ATOM   6222  N   ARG B 259     -32.350  27.857  -9.273  1.00 29.09      B
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ATOM   6223  CA  ARG B 259     -32.467  27.956 -10.729  1.00 26.95      B
ATOM   6224  CB  ARG B 259     -31.412  28.930 -11.266  1.00 25.71      B
ATOM   6225  CG  ARG B 259     -31.542  30.323 -10.711  1.00 26.50      B
ATOM   6226  CD  ARG B 259     -30.343  31.161 -11.070  1.00 28.25      B
ATOM   6227  NE  ARG B 259     -30.234  31.332 -12.512  1.00 31.35      B
ATOM   6228  CZ  ARG B 259     -29.292  32.047 -13.116  1.00 29.98      B
ATOM   6229  NH1 ARG B 259     -28.362  32.671 -12.409  1.00 29.69      B
ATOM   6230  NH2 ARG B 259     -29.274  32.121 -14.433  1.00 28.76      B
ATOM   6231  C   ARG B 259     -32.371  26.662 -11.512  1.00 26.26      B
ATOM   6232  O   ARG B 259     -32.780  26.607 -12.679  1.00 26.42      B
ATOM   6233  N   LEU B 260     -31.843  25.616 -10.890  1.00 24.55      B
ATOM   6234  CA  LEU B 260     -31.681  24.365 -11.609  1.00 23.43      B
ATOM   6235  CB  LEU B 260     -30.204  24.164 -11.949  1.00 21.40      B
ATOM   6236  CG  LEU B 260     -29.824  22.922 -12.761  1.00 19.88      B
ATOM   6237  CD1 LEU B 260     -30.489  22.968 -14.133  1.00 17.70      B
ATOM   6238  CD2 LEU B 260     -28.306  22.859 -12.901  1.00 16.76      B
ATOM   6239  C   LEU B 260     -32.190  23.139 -10.879  1.00 25.78      B
ATOM   6240  O   LEU B 260     -33.089  22.443 -11.354  1.00 25.85      B
ATOM   6241  N   TYR B 261     -31.624  22.879  -9.710  1.00 26.60      B
ATOM   6242  CA  TYR B 261     -32.000  21.703  -8.964  1.00 26.51      B
ATOM   6243  CB  TYR B 261     -31.065  21.562  -7.767  1.00 26.57      B
ATOM   6244  CG  TYR B 261     -29.598  21.535  -8.173  1.00 28.75      B
ATOM   6245  CD1 TYR B 261     -29.203  20.982  -9.394  1.00 29.65      B
ATOM   6246  CE1 TYR B 261     -27.859  20.924  -9.758  1.00 30.64      B
ATOM   6247  CD2 TYR B 261     -28.601  22.033  -7.326  1.00 29.21      B
ATOM   6248  CE2 TYR B 261     -27.259  21.977  -7.680  1.00 28.03      B
ATOM   6249  CZ  TYR B 261     -26.895  21.420  -8.896  1.00 31.44      B
ATOM   6250  OH  TYR B 261     -25.565  21.338  -9.245  1.00 34.76      B
ATOM   6251  C   TYR B 261     -33.467  21.515  -8.557  1.00 28.57      B
ATOM   6252  O   TYR B 261     -33.965  20.398  -8.652  1.00 29.94      B
ATOM   6253  N   ILE B 262     -34.181  22.556  -8.125  1.00 29.53      B
ATOM   6254  CA  ILE B 262     -35.583  22.328  -7.743  1.00 30.68      B
ATOM   6255  CB  ILE B 262     -36.140  23.411  -6.786  1.00 30.16      B
ATOM   6256  CG2 ILE B 262     -35.415  23.358  -5.467  1.00 32.39      B
ATOM   6257  CG1 ILE B 262     -36.046  24.788  -7.430  1.00 29.40      B
ATOM   6258  CD1 ILE B 262     -36.672  25.872  -6.593  1.00 26.57      B
ATOM   6259  C   ILE B 262     -36.539  22.241  -8.929  1.00 31.29      B
ATOM   6260  O   ILE B 262     -37.734  21.957  -8.762  1.00 32.23      B
ATOM   6261  N   GLY B 263     -36.025  22.489 -10.127  1.00 30.18      B
ATOM   6262  CA  GLY B 263     -36.882  22.415 -11.291  1.00 29.47      B
ATOM   6263  C   GLY B 263     -36.575  23.486 -12.305  1.00 29.83      B
ATOM   6264  O   GLY B 263     -35.575  24.191 -12.197  1.00 29.46      B
ATOM   6265  N   GLY B 264     -37.444  23.617 -13.297  1.00 30.30      B
ATOM   6266  CA  GLY B 264     -37.224  24.611 -14.326  1.00 29.47      B
ATOM   6267  C   GLY B 264     -37.774  24.124 -15.641  1.00 29.95      B
ATOM   6268  O   GLY B 264     -38.322  23.027 -15.712  1.00 31.35      B
ATOM   6269  N   PRO B 265     -37.637  24.913 -16.710  1.00 30.34      B
ATOM   6270  CD  PRO B 265     -36.957  26.216 -16.757  1.00 29.08      B
ATOM   6271  CA  PRO B 265     -38.140  24.538 -18.036  1.00 31.01      B
ATOM   6272  CB  PRO B 265     -37.977  25.826 -18.833  1.00 28.73      B
ATOM   6273  CG  PRO B 265     -36.760  26.414 -18.242  1.00 28.84      B
ATOM   6274  C   PRO B 265     -37.432  23.349 -18.688  1.00 32.25      B
ATOM   6275  O   PRO B 265     -36.248  23.098 -18.451  1.00 33.45      B
ATOM   6276  N   LEU B 266     -38.186  22.617 -19.503  1.00 32.59      B
ATOM   6277  CA  LEU B 266     -37.692  21.445 -20.220  1.00 31.78      B
ATOM   6278  CB  LEU B 266     -38.552  20.221 -19.881  1.00 29.06      B
ATOM   6279  CG  LEU B 266     -38.505  19.598 -18.483  1.00 29.41      B
ATOM   6280  CD1 LEU B 266     -39.717  18.719 -18.268  1.00 28.43      B
ATOM   6281  CD2 LEU B 266     -37.235  18.785 -18.323  1.00 28.61      B
ATOM   6282  C   LEU B 266     -37.766  21.721 -21.729  1.00 32.80      B
ATOM   6283  O   LEU B 266     -38.825  22.060 -22.249  1.00 32.97      B
ATOM   6284  N   THR B 267     -36.641  21.572 -22.425  1.00 33.74      B
ATOM   6285  CA  THR B 267     -36.589  21.815 -23.869  1.00 33.64      B
ATOM   6286  CB  THR B 267     -35.578  22.938 -24.197  1.00 33.21      B
ATOM   6287  OG1 THR B 267     -35.768  24.035 -23.296  1.00 33.58      B
ATOM   6288  CG2 THR B 267     -35.778  23.435 -25.602  1.00 31.69      B
ATOM   6289  C   THR B 267     -36.168  20.562 -24.636  1.00 34.74      B
ATOM   6290  O   THR B 267     -35.216  19.884 -24.235  1.00 34.64      B
ATOM   6291  N   ASN B 268     -36.877  20.246 -25.724  1.00 35.45      B
ATOM   6292  CA  ASN B 268     -36.525  19.075 -26.532  1.00 36.88      B
ATOM   6293  CB  ASN B 268     -37.726  18.565 -27.356  1.00 36.56      B
ATOM   6294  CG  ASN B 268     -38.166  19.540 -28.448  1.00 38.26      B
ATOM   6295  OD1 ASN B 268     -37.469  20.503 -28.774  1.00 38.32      B
ATOM   6296  ND2 ASN B 268     -39.327  19.277 -29.027  1.00 35.15      B
ATOM   6297  C   ASN B 268     -35.358  19.417 -27.459  1.00 37.27      B
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ATOM	6298	O	ASN	B	268	-35.003	20.581	-27.620	1.00	35.35	B
ATOM	6299	N	SER	B	269	-34.754	18.402	-28.060	1.00	39.31	B
ATOM	6300	CA	SER	B	269	-33.628	18.634	-28.950	1.00	42.08	B
ATOM	6301	CB	SER	B	269	-33.153	17.313	-29.536	1.00	42.64	B
ATOM	6302	OG	SER	B	269	-34.208	16.684	-30.241	1.00	48.39	B
ATOM	6303	C	SER	B	269	-33.936	19.619	-30.080	1.00	44.35	B
ATOM	6304	O	SER	B	269	-33.015	20.120	-30.735	1.00	46.40	B
ATOM	6305	N	LYS	B	270	-35.216	19.901	-30.315	1.00	45.52	B
ATOM	6306	CA	LYS	B	270	-35.606	20.842	-31.370	1.00	47.22	B
ATOM	6307	CB	LYS	B	270	-37.011	20.536	-31.879	1.00	51.42	B
ATOM	6308	CG	LYS	B	270	-37.144	19.423	-32.895	1.00	56.24	B
ATOM	6309	CD	LYS	B	270	-38.574	19.449	-33.435	1.00	60.18	B
ATOM	6310	CE	LYS	B	270	-38.850	18.357	-34.456	1.00	62.24	B
ATOM	6311	NZ	LYS	B	270	-40.286	18.402	-34.880	1.00	64.30	B
ATOM	6312	C	LYS	B	270	-35.600	22.302	-30.913	1.00	46.88	B
ATOM	6313	O	LYS	B	270	-35.799	23.212	-31.719	1.00	46.02	B
ATOM	6314	N	GLY	B	271	-35.396	22.521	-29.617	1.00	46.55	B
ATOM	6315	CA	GLY	B	271	-35.401	23.872	-29.087	1.00	44.63	B
ATOM	6316	C	GLY	B	271	-36.814	24.273	-28.701	1.00	43.92	B
ATOM	6317	O	GLY	B	271	-37.107	25.452	-28.510	1.00	44.85	B
ATOM	6318	N	GLN	B	272	-37.692	23.283	-28.574	1.00	42.76	B
ATOM	6319	CA	GLN	B	272	-39.086	23.529	-28.230	1.00	41.77	B
ATOM	6320	CB	GLN	B	272	-39.991	22.702	-29.129	1.00	42.33	B
ATOM	6321	CG	GLN	B	272	-39.942	23.120	-30.566	1.00	45.01	B
ATOM	6322	CD	GLN	B	272	-40.772	22.225	-31.438	1.00	45.38	B
ATOM	6323	OE1	GLN	B	272	-40.490	21.035	-31.578	1.00	43.45	B
ATOM	6324	NE2	GLN	B	272	-41.810	22.791	-32.031	1.00	48.22	B
ATOM	6325	C	GLN	B	272	-39.444	23.246	-26.781	1.00	40.35	B
ATOM	6326	O	GLN	B	272	-39.044	22.229	-26.207	1.00	38.77	B
ATOM	6327	N	ASN	B	273	-40.226	24.151	-26.209	1.00	37.51	B
ATOM	6328	CA	ASN	B	273	-40.652	24.029	-24.834	1.00	37.64	B
ATOM	6329	CB	ASN	B	273	-41.365	25.305	-24.411	1.00	37.29	B
ATOM	6330	CG	ASN	B	273	-41.696	25.317	-22.946	1.00	38.28	B
ATOM	6331	OD1	ASN	B	273	-42.361	26.224	-22.468	1.00	37.70	B
ATOM	6332	ND2	ASN	B	273	-41.227	24.305	-22.215	1.00	40.26	B
ATOM	6333	C	ASN	B	273	-41.574	22.831	-24.632	1.00	37.85	B
ATOM	6334	O	ASN	B	273	-42.663	22.782	-25.190	1.00	39.45	B
ATOM	6335	N	CYS	B	274	-41.135	21.877	-23.818	1.00	38.41	B
ATOM	6336	CA	CYS	B	274	-41.902	20.671	-23.542	1.00	38.55	B
ATOM	6337	CB	CYS	B	274	-40.977	19.475	-23.392	1.00	37.56	B
ATOM	6338	SG	CYS	B	274	-40.306	18.881	-24.921	1.00	46.30	B
ATOM	6339	C	CYS	B	274	-42.725	20.771	-22.286	1.00	39.63	B
ATOM	6340	O	CYS	B	274	-43.783	20.151	-22.181	1.00	43.11	B
ATOM	6341	N	GLY	B	275	-42.228	21.529	-21.318	1.00	38.91	B
ATOM	6342	CA	GLY	B	275	-42.944	21.664	-20.071	1.00	37.42	B
ATOM	6343	C	GLY	B	275	-42.058	22.158	-18.954	1.00	37.31	B
ATOM	6344	O	GLY	B	275	-41.082	22.870	-19.190	1.00	38.79	B
ATOM	6345	N	TYR	B	276	-42.394	21.776	-17.730	1.00	35.31	B
ATOM	6346	CA	TYR	B	276	-41.635	22.213	-16.578	1.00	33.28	B
ATOM	6347	CB	TYR	B	276	-42.429	23.274	-15.826	1.00	32.11	B
ATOM	6348	CG	TYR	B	276	-41.583	24.231	-15.033	1.00	32.74	B
ATOM	6349	CD1	TYR	B	276	-40.959	25.319	-15.653	1.00	32.85	B
ATOM	6350	CE1	TYR	B	276	-40.175	26.214	-14.927	1.00	32.95	B
ATOM	6351	CD2	TYR	B	276	-41.400	24.055	-13.663	1.00	32.43	B
ATOM	6352	CE2	TYR	B	276	-40.618	24.943	-12.925	1.00	33.95	B
ATOM	6353	CZ	TYR	B	276	-40.011	26.020	-13.561	1.00	34.74	B
ATOM	6354	OH	TYR	B	276	-39.256	26.905	-12.824	1.00	34.99	B
ATOM	6355	C	TYR	B	276	-41.390	21.020	-15.672	1.00	33.59	B
ATOM	6356	O	TYR	B	276	-42.169	20.063	-15.670	1.00	34.70	B
ATOM	6357	N	ARG	B	277	-40.310	21.086	-14.900	1.00	32.09	B
ATOM	6358	CA	ARG	B	277	-39.942	20.020	-13.976	1.00	30.36	B
ATOM	6359	CB	ARG	B	277	-38.531	19.509	-14.309	1.00	28.53	B
ATOM	6360	CG	ARG	B	277	-37.885	18.624	-13.233	1.00	30.06	B
ATOM	6361	CD	ARG	B	277	-36.461	18.228	-13.622	1.00	30.98	B
ATOM	6362	NE	ARG	B	277	-35.657	19.412	-13.921	1.00	33.62	B
ATOM	6363	CZ	ARG	B	277	-34.984	20.127	-13.021	1.00	31.52	B
ATOM	6364	NH1	ARG	B	277	-34.986	19.786	-11.741	1.00	27.35	B
ATOM	6365	NH2	ARG	B	277	-34.335	21.215	-13.407	1.00	31.66	B
ATOM	6366	C	ARG	B	277	-39.979	20.564	-12.549	1.00	30.85	B
ATOM	6367	O	ARG	B	277	-39.658	21.732	-12.317	1.00	30.75	B
ATOM	6368	N	ARG	B	278	-40.379	19.725	-11.599	1.00	30.01	B
ATOM	6369	CA	ARG	B	278	-40.421	20.141	-10.206	1.00	29.54	B
ATOM	6370	CB	ARG	B	278	-41.846	20.516	-9.806	1.00	29.47	B
ATOM	6371	CG	ARG	B	278	-42.446	21.590	-10.709	1.00	28.27	B
ATOM	6372	CD	ARG	B	278	-43.678	22.242	-10.094	1.00	28.70	B

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ATOM   6373  NE  ARG B 278     -44.311  23.138 -11.054  1.00 29.52       B
ATOM   6374  CZ  ARG B 278     -44.983  22.729 -12.123  1.00 27.38       B
ATOM   6375  NH1 ARG B 278     -45.130  21.433 -12.366  1.00 27.69       B
ATOM   6376  NH2 ARG B 278     -45.462  23.616 -12.975  1.00 25.48       B
ATOM   6377  C   ARG B 278     -39.890  19.023  -9.325  1.00 30.61       B
ATOM   6378  O   ARG B 278     -40.247  18.911  -8.152  1.00 30.21       B
ATOM   6379  N   CYS B 279     -39.028  18.200  -9.918  1.00 31.32       B
ATOM   6380  CA  CYS B 279     -38.397  17.072  -9.238  1.00 32.67       B
ATOM   6381  CB  CYS B 279     -39.135  15.765  -9.559  1.00 32.82       B
ATOM   6382  SG  CYS B 279     -39.264  15.399 -11.325  1.00 35.79       B
ATOM   6383  C   CYS B 279     -36.939  16.943  -9.672  1.00 32.28       B
ATOM   6384  O   CYS B 279     -36.417  17.789 -10.393  1.00 33.98       B
ATOM   6385  N   ARG B 280     -36.292  15.869  -9.243  1.00 30.59       B
ATOM   6386  CA  ARG B 280     -34.899  15.630  -9.579  1.00 29.82       B
ATOM   6387  CB  ARG B 280     -34.450  14.321  -8.933  1.00 29.74       B
ATOM   6388  CG  ARG B 280     -33.028  13.910  -9.246  1.00 28.13       B
ATOM   6389  CD  ARG B 280     -32.059  14.658  -8.366  1.00 29.35       B
ATOM   6390  NE  ARG B 280     -32.141  14.236  -6.970  1.00 28.96       B
ATOM   6391  CZ  ARG B 280     -31.990  15.058  -5.936  1.00 29.19       B
ATOM   6392  NH1 ARG B 280     -31.760  16.346  -6.150  1.00 24.83       B
ATOM   6393  NH2 ARG B 280     -32.043  14.591  -4.690  1.00 28.19       B
ATOM   6394  C   ARG B 280     -34.615  15.558 -11.082  1.00 30.71       B
ATOM   6395  O   ARG B 280     -35.324  14.894 -11.824  1.00 31.49       B
ATOM   6396  N   ALA B 281     -33.585  16.263 -11.533  1.00 31.83       B
ATOM   6397  CA  ALA B 281     -33.164  16.188 -12.931  1.00 31.28       B
ATOM   6398  CB  ALA B 281     -32.509  17.486 -13.369  1.00 30.91       B
ATOM   6399  C   ALA B 281     -32.125  15.060 -12.871  1.00 31.54       B
ATOM   6400  O   ALA B 281     -31.345  14.979 -11.922  1.00 31.80       B
ATOM   6401  N   SER B 282     -32.110  14.178 -13.856  1.00 30.86       B
ATOM   6402  CA  SER B 282     -31.163  13.075 -13.803  1.00 30.75       B
ATOM   6403  CB  SER B 282     -31.626  11.947 -14.716  1.00 31.33       B
ATOM   6404  OG  SER B 282     -31.606  12.362 -16.068  1.00 34.61       B
ATOM   6405  C   SER B 282     -29.750  13.466 -14.191  1.00 30.64       B
ATOM   6406  O   SER B 282     -28.792  12.825 -13.768  1.00 29.42       B
ATOM   6407  N   GLY B 283     -29.631  14.526 -14.985  1.00 30.78       B
ATOM   6408  CA  GLY B 283     -28.335  14.963 -15.462  1.00 30.43       B
ATOM   6409  C   GLY B 283     -27.625  16.140 -14.822  1.00 32.62       B
ATOM   6410  O   GLY B 283     -26.991  16.925 -15.526  1.00 35.35       B
ATOM   6411  N   VAL B 284     -27.722  16.288 -13.506  1.00 31.55       B
ATOM   6412  CA  VAL B 284     -27.008  17.363 -12.828  1.00 31.69       B
ATOM   6413  CB  VAL B 284     -27.943  18.245 -11.954  1.00 32.53       B
ATOM   6414  CG1 VAL B 284     -28.812  19.109 -12.856  1.00 30.13       B
ATOM   6415  CG2 VAL B 284     -28.796  17.378 -11.030  1.00 30.08       B
ATOM   6416  C   VAL B 284     -25.971  16.671 -11.958  1.00 31.68       B
ATOM   6417  O   VAL B 284     -26.085  15.481 -11.691  1.00 33.40       B
ATOM   6418  N   LEU B 285     -24.960  17.400 -11.515  1.00 30.77       B
ATOM   6419  CA  LEU B 285     -23.910  16.795 -10.715  1.00 30.65       B
ATOM   6420  CB  LEU B 285     -22.777  17.797 -10.528  1.00 30.30       B
ATOM   6421  CG  LEU B 285     -21.494  17.214  -9.950  1.00 31.37       B
ATOM   6422  CD1 LEU B 285     -20.991  16.155 -10.889  1.00 30.95       B
ATOM   6423  CD2 LEU B 285     -20.441  18.303  -9.767  1.00 31.81       B
ATOM   6424  C   LEU B 285     -24.372  16.291  -9.349  1.00 31.77       B
ATOM   6425  O   LEU B 285     -23.753  15.403  -8.768  1.00 32.56       B
ATOM   6426  N   THR B 286     -25.471  16.840  -8.847  1.00 31.37       B
ATOM   6427  CA  THR B 286     -25.960  16.458  -7.528  1.00 31.32       B
ATOM   6428  CB  THR B 286     -26.635  17.662  -6.835  1.00 32.34       B
ATOM   6429  OG1 THR B 286     -27.710  18.149  -7.650  1.00 33.39       B
ATOM   6430  CG2 THR B 286     -25.627  18.777  -6.620  1.00 33.50       B
ATOM   6431  C   THR B 286     -26.926  15.282  -7.461  1.00 29.51       B
ATOM   6432  O   THR B 286     -27.337  14.881  -6.376  1.00 28.90       B
ATOM   6433  N   THR B 287     -27.279  14.711  -8.601  1.00 29.24       B
ATOM   6434  CA  THR B 287     -28.238  13.612  -8.599  1.00 29.50       B
ATOM   6435  CB  THR B 287     -28.506  13.094 -10.024  1.00 27.97       B
ATOM   6436  OG1 THR B 287     -29.032  14.153 -10.827  1.00 30.00       B
ATOM   6437  CG2 THR B 287     -29.515  11.978  -9.994  1.00 26.19       B
ATOM   6438  C   THR B 287     -27.875  12.421  -7.719  1.00 28.34       B
ATOM   6439  O   THR B 287     -28.699  11.935  -6.955  1.00 28.72       B
ATOM   6440  N   SER B 288     -26.646  11.950  -7.813  1.00 28.45       B
ATOM   6441  CA  SER B 288     -26.265  10.793  -7.027  1.00 30.17       B
ATOM   6442  CB  SER B 288     -24.942  10.233  -7.534  1.00 29.00       B
ATOM   6443  OG  SER B 288     -24.689   8.979  -6.936  1.00 34.50       B
ATOM   6444  C   SER B 288     -26.162  11.115  -5.544  1.00 31.29       B
ATOM   6445  O   SER B 288     -26.798  10.477  -4.704  1.00 31.61       B
ATOM   6446  N   CYS B 289     -25.355  12.112  -5.229  1.00 32.25       B
ATOM   6447  CA  CYS B 289     -25.161  12.528  -3.853  1.00 34.14       B
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ATOM	6448	CB	CYS	B	289	-24.217	13.721	-3.820	1.00	35.03	B
ATOM	6449	SG	CYS	B	289	-24.148	14.492	-2.226	1.00	38.19	B
ATOM	6450	C	CYS	B	289	-26.473	12.896	-3.160	1.00	34.49	B
ATOM	6451	O	CYS	B	289	-26.705	12.509	-2.016	1.00	34.41	B
ATOM	6452	N	GLY	B	290	-27.316	13.651	-3.866	1.00	35.29	B
ATOM	6453	CA	GLY	B	290	-28.594	14.087	-3.332	1.00	34.21	B
ATOM	6454	C	GLY	B	290	-29.575	12.947	-3.181	1.00	35.82	B
ATOM	6455	O	GLY	B	290	-30.288	12.847	-2.174	1.00	35.01	B
ATOM	6456	N	ASN	B	291	-29.629	12.080	-4.188	1.00	35.21	B
ATOM	6457	CA	ASN	B	291	-30.524	10.945	-4.110	1.00	33.78	B
ATOM	6458	CB	ASN	B	291	-30.524	10.162	-5.415	1.00	32.97	B
ATOM	6459	CG	ASN	B	291	-31.458	10.765	-6.438	1.00	36.65	B
ATOM	6460	OD1	ASN	B	291	-32.280	11.616	-6.105	1.00	40.35	B
ATOM	6461	ND2	ASN	B	291	-31.351	10.325	-7.683	1.00	37.24	B
ATOM	6462	C	ASN	B	291	-30.097	10.062	-2.957	1.00	33.69	B
ATOM	6463	O	ASN	B	291	-30.931	9.630	-2.173	1.00	34.41	B
ATOM	6464	N	THR	B	292	-28.797	9.816	-2.838	1.00	32.89	B
ATOM	6465	CA	THR	B	292	-28.292	8.984	-1.757	1.00	32.56	B
ATOM	6466	CB	THR	B	292	-26.768	8.831	-1.809	1.00	33.20	B
ATOM	6467	OG1	THR	B	292	-26.386	8.236	-3.053	1.00	37.49	B
ATOM	6468	CG2	THR	B	292	-26.297	7.937	-0.689	1.00	32.25	B
ATOM	6469	C	THR	B	292	-28.642	9.578	-0.408	1.00	32.37	B
ATOM	6470	O	THR	B	292	-29.134	8.875	0.476	1.00	34.36	B
ATOM	6471	N	LEU	B	293	-28.380	10.871	-0.243	1.00	30.30	B
ATOM	6472	CA	LEU	B	293	-28.665	11.529	1.023	1.00	28.89	B
ATOM	6473	CB	LEU	B	293	-28.128	12.966	1.023	1.00	27.32	B
ATOM	6474	CG	LEU	B	293	-26.600	13.155	1.055	1.00	27.76	B
ATOM	6475	CD1	LEU	B	293	-26.213	14.526	0.493	1.00	24.63	B
ATOM	6476	CD2	LEU	B	293	-26.101	12.992	2.489	1.00	25.67	B
ATOM	6477	C	LEU	B	293	-30.157	11.530	1.270	1.00	29.55	B
ATOM	6478	O	LEU	B	293	-30.607	11.189	2.356	1.00	30.60	B
ATOM	6479	N	THR	B	294	-30.929	11.894	0.250	1.00	30.62	B
ATOM	6480	CA	THR	B	294	-32.385	11.954	0.371	1.00	30.58	B
ATOM	6481	CB	THR	B	294	-33.013	12.476	-0.931	1.00	29.95	B
ATOM	6482	OG1	THR	B	294	-32.608	13.832	-1.129	1.00	30.15	B
ATOM	6483	CG2	THR	B	294	-34.535	12.411	-0.867	1.00	27.38	B
ATOM	6484	C	THR	B	294	-33.012	10.606	0.724	1.00	31.27	B
ATOM	6485	O	THR	B	294	-33.946	10.529	1.522	1.00	32.73	B
ATOM	6486	N	CYS	B	295	-32.496	9.546	0.124	1.00	30.81	B
ATOM	6487	CA	CYS	B	295	-32.999	8.212	0.382	1.00	32.48	B
ATOM	6488	CB	CYS	B	295	-32.331	7.224	-0.565	1.00	31.98	B
ATOM	6489	SG	CYS	B	295	-33.091	5.609	-0.570	1.00	33.47	B
ATOM	6490	C	CYS	B	295	-32.673	7.839	1.824	1.00	34.28	B
ATOM	6491	O	CYS	B	295	-33.554	7.454	2.604	1.00	33.53	B
ATOM	6492	N	TYR	B	296	-31.392	7.961	2.160	1.00	34.53	B
ATOM	6493	CA	TYR	B	296	-30.894	7.654	3.491	1.00	34.05	B
ATOM	6494	CB	TYR	B	296	-29.401	7.997	3.570	1.00	34.44	B
ATOM	6495	CG	TYR	B	296	-28.797	7.882	4.948	1.00	36.51	B
ATOM	6496	CD1	TYR	B	296	-29.034	8.855	5.918	1.00	37.26	B
ATOM	6497	CE1	TYR	B	296	-28.492	8.743	7.198	1.00	39.73	B
ATOM	6498	CD2	TYR	B	296	-28.000	6.792	5.291	1.00	37.52	B
ATOM	6499	CE2	TYR	B	296	-27.449	6.671	6.572	1.00	38.87	B
ATOM	6500	CZ	TYR	B	296	-27.701	7.648	7.518	1.00	39.76	B
ATOM	6501	OH	TYR	B	296	-27.167	7.529	8.785	1.00	42.09	B
ATOM	6502	C	TYR	B	296	-31.680	8.397	4.566	1.00	34.59	B
ATOM	6503	O	TYR	B	296	-32.090	7.800	5.560	1.00	35.80	B
ATOM	6504	N	LEU	B	297	-31.898	9.691	4.374	1.00	33.72	B
ATOM	6505	CA	LEU	B	297	-32.633	10.467	5.358	1.00	35.45	B
ATOM	6506	CB	LEU	B	297	-32.754	11.932	4.910	1.00	35.19	B
ATOM	6507	CG	LEU	B	297	-33.794	12.844	5.586	1.00	31.50	B
ATOM	6508	CD1	LEU	B	297	-33.573	12.936	7.097	1.00	30.06	B
ATOM	6509	CD2	LEU	B	297	-33.712	14.202	4.938	1.00	28.55	B
ATOM	6510	C	LEU	B	297	-34.019	9.883	5.594	1.00	37.38	B
ATOM	6511	O	LEU	B	297	-34.400	9.590	6.731	1.00	38.48	B
ATOM	6512	N	LYS	B	298	-34.776	9.717	4.517	1.00	38.44	B
ATOM	6513	CA	LYS	B	298	-36.126	9.176	4.627	1.00	38.76	B
ATOM	6514	CB	LYS	B	298	-36.809	9.201	3.254	1.00	37.00	B
ATOM	6515	CG	LYS	B	298	-37.147	10.610	2.778	1.00	34.21	B
ATOM	6516	CD	LYS	B	298	-37.667	10.651	1.342	1.00	31.01	B
ATOM	6517	CE	LYS	B	298	-37.959	12.095	0.925	1.00	28.08	B
ATOM	6518	NZ	LYS	B	298	-38.396	12.260	-0.501	1.00	24.58	B
ATOM	6519	C	LYS	B	298	-36.134	7.763	5.205	1.00	38.99	B
ATOM	6520	O	LYS	B	298	-36.874	7.477	6.137	1.00	39.22	B
ATOM	6521	N	ALA	B	299	-35.304	6.887	4.654	1.00	39.16	B
ATOM	6522	CA	ALA	B	299	-35.234	5.508	5.124	1.00	40.43	B

ATOM	6523	CB	ALA	B	299	-34.214	4.735	4.302	1.00	40.34	B
ATOM	6524	C	ALA	B	299	-34.878	5.419	6.610	1.00	42.22	B
ATOM	6525	O	ALA	B	299	-35.562	4.735	7.374	1.00	42.24	B
ATOM	6526	N	THR	B	300	-33.803	6.093	7.024	1.00	42.22	B
ATOM	6527	CA	THR	B	300	-33.413	6.053	8.428	1.00	40.60	B
ATOM	6528	CB	THR	B	300	-32.212	6.957	8.740	1.00	38.50	B
ATOM	6529	OG1	THR	B	300	-31.056	6.507	8.032	1.00	37.29	B
ATOM	6530	CG2	THR	B	300	-31.926	6.923	10.229	1.00	36.16	B
ATOM	6531	C	THR	B	300	-34.563	6.524	9.310	1.00	41.38	B
ATOM	6532	O	THR	B	300	-34.866	5.895	10.324	1.00	42.18	B
ATOM	6533	N	ALA	B	301	-35.194	7.634	8.927	1.00	39.83	B
ATOM	6534	CA	ALA	B	301	-36.298	8.180	9.705	1.00	39.93	B
ATOM	6535	CB	ALA	B	301	-36.768	9.493	9.108	1.00	37.51	B
ATOM	6536	C	ALA	B	301	-37.440	7.178	9.735	1.00	41.15	B
ATOM	6537	O	ALA	B	301	-38.026	6.913	10.783	1.00	42.33	B
ATOM	6538	N	ALA	B	302	-37.749	6.616	8.574	1.00	42.24	B
ATOM	6539	CA	ALA	B	302	-38.813	5.638	8.468	1.00	41.66	B
ATOM	6540	CB	ALA	B	302	-38.927	5.148	7.037	1.00	39.42	B
ATOM	6541	C	ALA	B	302	-38.558	4.464	9.414	1.00	42.79	B
ATOM	6542	O	ALA	B	302	-39.481	3.991	10.078	1.00	44.57	B
ATOM	6543	N	CYS	B	303	-37.316	3.990	9.486	1.00	42.69	B
ATOM	6544	CA	CYS	B	303	-37.014	2.874	10.374	1.00	43.53	B
ATOM	6545	CB	CYS	B	303	-35.533	2.519	10.312	1.00	43.63	B
ATOM	6546	SG	CYS	B	303	-35.065	1.773	8.734	1.00	49.72	B
ATOM	6547	C	CYS	B	303	-37.426	3.214	11.796	1.00	43.63	B
ATOM	6548	O	CYS	B	303	-38.080	2.419	12.464	1.00	44.14	B
ATOM	6549	N	ARG	B	304	-37.066	4.404	12.254	1.00	44.25	B
ATOM	6550	CA	ARG	B	304	-37.442	4.821	13.592	1.00	45.25	B
ATOM	6551	CB	ARG	B	304	-36.876	6.211	13.899	1.00	43.16	B
ATOM	6552	CG	ARG	B	304	-35.362	6.236	13.848	1.00	41.18	B
ATOM	6553	CD	ARG	B	304	-34.796	7.530	14.359	1.00	39.63	B
ATOM	6554	NE	ARG	B	304	-33.354	7.586	14.149	1.00	40.60	B
ATOM	6555	CZ	ARG	B	304	-32.610	8.662	14.390	1.00	42.73	B
ATOM	6556	NH1	ARG	B	304	-33.176	9.773	14.851	1.00	43.84	B
ATOM	6557	NH2	ARG	B	304	-31.302	8.636	14.164	1.00	42.15	B
ATOM	6558	C	ARG	B	304	-38.964	4.827	13.705	1.00	46.89	B
ATOM	6559	O	ARG	B	304	-39.515	4.463	14.741	1.00	49.59	B
ATOM	6560	N	ALA	B	305	-39.641	5.225	12.632	1.00	46.98	B
ATOM	6561	CA	ALA	B	305	-41.094	5.269	12.629	1.00	47.63	B
ATOM	6562	CB	ALA	B	305	-41.587	5.949	11.373	1.00	45.91	B
ATOM	6563	C	ALA	B	305	-41.679	3.865	12.727	1.00	49.47	B
ATOM	6564	O	ALA	B	305	-42.744	3.673	13.304	1.00	50.39	B
ATOM	6565	N	ALA	B	306	-40.975	2.885	12.168	1.00	50.54	B
ATOM	6566	CA	ALA	B	306	-41.435	1.500	12.184	1.00	52.07	B
ATOM	6567	CB	ALA	B	306	-41.002	0.790	10.905	1.00	50.79	B
ATOM	6568	C	ALA	B	306	-40.904	0.750	13.402	1.00	54.15	B
ATOM	6569	O	ALA	B	306	-41.386	-0.329	13.743	1.00	53.79	B
ATOM	6570	N	LYS	B	307	-39.898	1.324	14.048	1.00	56.49	B
ATOM	6571	CA	LYS	B	307	-39.305	0.721	15.233	1.00	58.52	B
ATOM	6572	CB	LYS	B	307	-40.401	0.350	16.243	1.00	59.31	B
ATOM	6573	CG	LYS	B	307	-41.383	1.478	16.536	1.00	61.24	B
ATOM	6574	CD	LYS	B	307	-41.849	1.453	17.979	1.00	61.05	B
ATOM	6575	CE	LYS	B	307	-40.678	1.688	18.920	1.00	62.59	B
ATOM	6576	NZ	LYS	B	307	-41.083	1.685	20.355	1.00	64.64	B
ATOM	6577	C	LYS	B	307	-38.436	-0.507	14.945	1.00	59.09	B
ATOM	6578	O	LYS	B	307	-38.167	-1.306	15.843	1.00	60.03	B
ATOM	6579	N	LEU	B	308	-37.998	-0.667	13.703	1.00	59.04	B
ATOM	6580	CA	LEU	B	308	-37.143	-1.797	13.365	1.00	60.00	B
ATOM	6581	CB	LEU	B	308	-36.754	-1.722	11.888	1.00	59.41	B
ATOM	6582	CG	LEU	B	308	-37.928	-1.798	10.908	1.00	58.13	B
ATOM	6583	CD1	LEU	B	308	-37.472	-1.422	9.519	1.00	56.81	B
ATOM	6584	CD2	LEU	B	308	-38.499	-3.204	10.920	1.00	58.62	B
ATOM	6585	C	LEU	B	308	-35.897	-1.726	14.258	1.00	61.34	B
ATOM	6586	O	LEU	B	308	-35.294	-0.667	14.400	1.00	61.81	B
ATOM	6587	N	GLN	B	309	-35.515	-2.845	14.864	1.00	62.85	B
ATOM	6588	CA	GLN	B	309	-34.355	-2.864	15.754	1.00	64.36	B
ATOM	6589	CB	GLN	B	309	-34.479	-4.013	16.764	1.00	67.39	B
ATOM	6590	CG	GLN	B	309	-35.742	-3.967	17.619	1.00	70.15	B
ATOM	6591	CD	GLN	B	309	-35.892	-2.654	18.382	1.00	72.94	B
ATOM	6592	OE1	GLN	B	309	-36.023	-1.579	17.782	1.00	72.28	B
ATOM	6593	NE2	GLN	B	309	-35.872	-2.736	19.713	1.00	73.33	B
ATOM	6594	C	GLN	B	309	-33.037	-2.996	15.010	1.00	63.77	B
ATOM	6595	O	GLN	B	309	-32.984	-3.597	13.940	1.00	63.93	B
ATOM	6596	N	ASP	B	310	-31.977	-2.438	15.590	1.00	62.51	B
ATOM	6597	CA	ASP	B	310	-30.648	-2.498	14.996	1.00	62.66	B

ATOM	6598	CB	ASP	B	310	-29.890	-3.723	15.513	1.00	65.96	B
ATOM	6599	CG	ASP	B	310	-29.299	-3.508	16.889	1.00	69.49	B
ATOM	6600	OD1	ASP	B	310	-30.013	-2.961	17.761	1.00	71.08	B
ATOM	6601	OD2	ASP	B	310	-28.126	-3.897	17.099	1.00	70.48	B
ATOM	6602	C	ASP	B	310	-30.673	-2.555	13.481	1.00	61.72	B
ATOM	6603	O	ASP	B	310	-30.469	-3.617	12.898	1.00	62.35	B
ATOM	6604	N	CYS	B	311	-30.926	-1.422	12.839	1.00	60.41	B
ATOM	6605	CA	CYS	B	311	-30.948	-1.387	11.381	1.00	58.27	B
ATOM	6606	CB	CYS	B	311	-31.948	-0.350	10.870	1.00	56.84	B
ATOM	6607	SG	CYS	B	311	-33.659	-0.702	11.222	1.00	54.86	B
ATOM	6608	C	CYS	B	311	-29.579	-1.028	10.832	1.00	56.94	B
ATOM	6609	O	CYS	B	311	-28.840	-0.265	11.439	1.00	56.43	B
ATOM	6610	N	THR	B	312	-29.242	-1.594	9.683	1.00	56.74	B
ATOM	6611	CA	THR	B	312	-27.982	-1.283	9.019	1.00	57.30	B
ATOM	6612	CB	THR	B	312	-26.953	-2.412	9.139	1.00	58.10	B
ATOM	6613	OG1	THR	B	312	-26.518	-2.519	10.502	1.00	60.61	B
ATOM	6614	CG2	THR	B	312	-25.753	-2.127	8.240	1.00	57.69	B
ATOM	6615	C	THR	B	312	-28.330	-1.087	7.556	1.00	56.00	B
ATOM	6616	O	THR	B	312	-28.765	-2.027	6.885	1.00	55.32	B
ATOM	6617	N	MET	B	313	-28.152	0.136	7.069	1.00	54.42	B
ATOM	6618	CA	MET	B	313	-28.487	0.430	5.693	1.00	52.54	B
ATOM	6619	CB	MET	B	313	-29.307	1.710	5.600	1.00	54.23	B
ATOM	6620	CG	MET	B	313	-30.545	1.741	6.456	1.00	57.94	B
ATOM	6621	SD	MET	B	313	-31.630	3.044	5.882	1.00	61.15	B
ATOM	6622	CE	MET	B	313	-30.419	4.304	5.413	1.00	58.24	B
ATOM	6623	C	MET	B	313	-27.315	0.574	4.759	1.00	50.47	B
ATOM	6624	O	MET	B	313	-26.209	0.929	5.156	1.00	49.96	B
ATOM	6625	N	LEU	B	314	-27.589	0.286	3.499	1.00	48.23	B
ATOM	6626	CA	LEU	B	314	-26.616	0.422	2.448	1.00	47.00	B
ATOM	6627	CB	LEU	B	314	-26.139	-0.939	1.964	1.00	46.04	B
ATOM	6628	CG	LEU	B	314	-25.003	-0.838	0.945	1.00	46.68	B
ATOM	6629	CD1	LEU	B	314	-23.838	-0.080	1.562	1.00	46.36	B
ATOM	6630	CD2	LEU	B	314	-24.570	-2.227	0.513	1.00	46.92	B
ATOM	6631	C	LEU	B	314	-27.417	1.138	1.373	1.00	46.55	B
ATOM	6632	O	LEU	B	314	-28.394	0.603	0.846	1.00	46.66	B
ATOM	6633	N	VAL	B	315	-27.020	2.367	1.078	1.00	45.62	B
ATOM	6634	CA	VAL	B	315	-27.724	3.167	0.097	1.00	45.02	B
ATOM	6635	CB	VAL	B	315	-28.217	4.479	0.721	1.00	45.99	B
ATOM	6636	CG1	VAL	B	315	-29.003	5.287	-0.304	1.00	45.24	B
ATOM	6637	CG2	VAL	B	315	-29.058	4.178	1.953	1.00	46.52	B
ATOM	6638	C	VAL	B	315	-26.861	3.521	-1.089	1.00	44.90	B
ATOM	6639	O	VAL	B	315	-25.708	3.913	-0.938	1.00	45.08	B
ATOM	6640	N	ASN	B	316	-27.436	3.376	-2.272	1.00	44.15	B
ATOM	6641	CA	ASN	B	316	-26.754	3.710	-3.504	1.00	44.37	B
ATOM	6642	CB	ASN	B	316	-26.386	2.450	-4.283	1.00	45.47	B
ATOM	6643	CG	ASN	B	316	-25.221	1.705	-3.662	1.00	45.68	B
ATOM	6644	OD1	ASN	B	316	-25.354	1.061	-2.612	1.00	46.26	B
ATOM	6645	ND2	ASN	B	316	-24.061	1.803	-4.303	1.00	44.51	B
ATOM	6646	C	ASN	B	316	-27.736	4.540	-4.292	1.00	44.48	B
ATOM	6647	O	ASN	B	316	-28.584	4.006	-4.998	1.00	45.10	B
ATOM	6648	N	GLY	B	317	-27.628	5.856	-4.164	1.00	44.63	B
ATOM	6649	CA	GLY	B	317	-28.556	6.712	-4.860	1.00	44.14	B
ATOM	6650	C	GLY	B	317	-29.936	6.395	-4.316	1.00	45.93	B
ATOM	6651	O	GLY	B	317	-30.199	6.577	-3.126	1.00	46.89	B
ATOM	6652	N	ASP	B	318	-30.813	5.889	-5.172	1.00	46.37	B
ATOM	6653	CA	ASP	B	318	-32.174	5.571	-4.758	1.00	47.58	B
ATOM	6654	CB	ASP	B	318	-33.148	5.901	-5.890	1.00	48.33	B
ATOM	6655	CG	ASP	B	318	-32.953	5.006	-7.096	1.00	50.26	B
ATOM	6656	OD1	ASP	B	318	-31.810	4.557	-7.335	1.00	49.19	B
ATOM	6657	OD2	ASP	B	318	-33.942	4.759	-7.813	1.00	52.14	B
ATOM	6658	C	ASP	B	318	-32.283	4.102	-4.403	1.00	46.99	B
ATOM	6659	O	ASP	B	318	-33.362	3.611	-4.072	1.00	45.12	B
ATOM	6660	N	ASP	B	319	-31.151	3.413	-4.470	1.00	48.09	B
ATOM	6661	CA	ASP	B	319	-31.085	1.988	-4.176	1.00	49.50	B
ATOM	6662	CB	ASP	B	319	-29.973	1.354	-5.001	1.00	52.19	B
ATOM	6663	CG	ASP	B	319	-30.315	-0.041	-5.451	1.00	54.84	B
ATOM	6664	OD1	ASP	B	319	-30.334	-0.960	-4.596	1.00	55.07	B
ATOM	6665	OD2	ASP	B	319	-30.573	-0.206	-6.666	1.00	57.43	B
ATOM	6666	C	ASP	B	319	-30.843	1.740	-2.693	1.00	49.52	B
ATOM	6667	O	ASP	B	319	-29.783	2.068	-2.156	1.00	48.57	B
ATOM	6668	N	LEU	B	320	-31.832	1.133	-2.046	1.00	50.10	B
ATOM	6669	CA	LEU	B	320	-31.777	0.866	-0.619	1.00	50.35	B
ATOM	6670	CB	LEU	B	320	-32.832	1.717	0.082	1.00	49.52	B
ATOM	6671	CG	LEU	B	320	-33.047	1.423	1.562	1.00	49.85	B
ATOM	6672	CD1	LEU	B	320	-31.838	1.888	2.337	1.00	50.47	B

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ATOM   6673  CD2 LEU B 320     -34.295   2.129   2.052  1.00 50.70      B
ATOM   6674  C   LEU B 320     -31.965  -0.590  -0.198  1.00 51.86      B
ATOM   6675  O   LEU B 320     -32.782  -1.323  -0.755  1.00 50.20      B
ATOM   6676  N   VAL B 321     -31.201  -0.988   0.813  1.00 54.00      B
ATOM   6677  CA  VAL B 321     -31.277  -2.332   1.366  1.00 55.71      B
ATOM   6678  CB  VAL B 321     -30.287  -3.300   0.673  1.00 55.28      B
ATOM   6679  CG1 VAL B 321     -28.867  -2.810   0.842  1.00 55.80      B
ATOM   6680  CG2 VAL B 321     -30.442  -4.695   1.252  1.00 54.89      B
ATOM   6681  C   VAL B 321     -30.974  -2.272   2.863  1.00 56.98      B
ATOM   6682  O   VAL B 321     -29.889  -1.859   3.275  1.00 57.46      B
ATOM   6683  N   VAL B 322     -31.951  -2.678   3.668  1.00 57.72      B
ATOM   6684  CA  VAL B 322     -31.832  -2.675   5.121  1.00 58.29      B
ATOM   6685  CB  VAL B 322     -33.097  -2.076   5.757  1.00 58.30      B
ATOM   6686  CG1 VAL B 322     -32.953  -2.022   7.268  1.00 58.84      B
ATOM   6687  CG2 VAL B 322     -33.360  -0.700   5.180  1.00 59.90      B
ATOM   6688  C   VAL B 322     -31.644  -4.082   5.696  1.00 59.18      B
ATOM   6689  O   VAL B 322     -32.225  -5.052   5.201  1.00 59.52      B
ATOM   6690  N   ILE B 323     -30.818  -4.188   6.732  1.00 59.31      B
ATOM   6691  CA  ILE B 323     -30.585  -5.458   7.407  1.00 60.14      B
ATOM   6692  CB  ILE B 323     -29.177  -6.012   7.108  1.00 58.68      B
ATOM   6693  CG2 ILE B 323     -28.857  -7.171   8.030  1.00 58.32      B
ATOM   6694  CG1 ILE B 323     -29.121  -6.484   5.655  1.00 57.63      B
ATOM   6695  CD1 ILE B 323     -27.765  -6.970   5.209  1.00 56.52      B
ATOM   6696  C   ILE B 323     -30.751  -5.152   8.888  1.00 62.05      B
ATOM   6697  O   ILE B 323     -30.038  -4.321   9.448  1.00 61.46      B
ATOM   6698  N   CYS B 324     -31.711  -5.807   9.523  1.00 64.40      B
ATOM   6699  CA  CYS B 324     -31.959  -5.530  10.926  1.00 67.52      B
ATOM   6700  CB  CYS B 324     -33.158  -4.600  11.054  1.00 68.94      B
ATOM   6701  SG  CYS B 324     -34.722  -5.387  10.612  1.00 72.71      B
ATOM   6702  C   CYS B 324     -32.197  -6.742  11.806  1.00 68.28      B
ATOM   6703  O   CYS B 324     -32.237  -7.882  11.342  1.00 67.82      B
ATOM   6704  N   GLU B 325     -32.368  -6.461  13.093  1.00 69.78      B
ATOM   6705  CA  GLU B 325     -32.609  -7.484  14.094  1.00 71.02      B
ATOM   6706  CB  GLU B 325     -32.296  -6.925  15.487  1.00 73.00      B
ATOM   6707  CG  GLU B 325     -32.157  -7.987  16.555  1.00 76.10      B
ATOM   6708  CD  GLU B 325     -31.185  -9.079  16.150  1.00 77.49      B
ATOM   6709  OE1 GLU B 325     -29.998  -8.763  15.906  1.00 78.15      B
ATOM   6710  OE2 GLU B 325     -31.615 -10.251  16.071  1.00 78.26      B
ATOM   6711  C   GLU B 325     -34.072  -7.902  13.999  1.00 69.81      B
ATOM   6712  O   GLU B 325     -34.968  -7.103  14.265  1.00 69.94      B
ATOM   6713  N   SER B 326     -34.315  -9.147  13.603  1.00 69.73      B
ATOM   6714  CA  SER B 326     -35.686  -9.625  13.477  1.00 69.75      B
ATOM   6715  CB  SER B 326     -35.738 -11.027  12.896  1.00 68.56      B
ATOM   6716  OG  SER B 326     -37.079 -11.473  12.895  1.00 68.85      B
ATOM   6717  C   SER B 326     -36.414  -9.644  14.804  1.00 69.80      B
ATOM   6718  O   SER B 326     -35.802  -9.785  15.861  1.00 69.86      B
ATOM   6719  N   ALA B 327     -37.731  -9.515  14.741  1.00 69.78      B
ATOM   6720  CA  ALA B 327     -38.540  -9.516  15.941  1.00 71.14      B
ATOM   6721  CB  ALA B 327     -39.148  -8.157  16.138  1.00 70.54      B
ATOM   6722  C   ALA B 327     -39.627 -10.581  15.854  1.00 71.98      B
ATOM   6723  O   ALA B 327     -40.538 -10.624  16.675  1.00 72.54      B
ATOM   6724  N   GLY B 328     -39.524 -11.446  14.853  1.00 72.74      B
ATOM   6725  CA  GLY B 328     -40.507 -12.499  14.698  1.00 73.79      B
ATOM   6726  C   GLY B 328     -41.334 -12.305  13.449  1.00 74.88      B
ATOM   6727  O   GLY B 328     -42.069 -11.325  13.350  1.00 74.53      B
ATOM   6728  N   THR B 329     -41.200 -13.238  12.506  1.00 75.86      B
ATOM   6729  CA  THR B 329     -41.921 -13.241  11.225  1.00 77.15      B
ATOM   6730  CB  THR B 329     -42.493 -14.645  10.963  1.00 76.75      B
ATOM   6731  OG1 THR B 329     -41.450 -15.614  11.122  1.00 77.44      B
ATOM   6732  CG2 THR B 329     -43.073 -14.751   9.565  1.00 75.74      B
ATOM   6733  C   THR B 329     -43.072 -12.243  11.170  1.00 78.11      B
ATOM   6734  O   THR B 329     -43.104 -11.327  10.345  1.00 78.21      B
ATOM   6735  N   GLN B 330     -44.010 -12.448  12.081  1.00 79.29      B
ATOM   6736  CA  GLN B 330     -45.202 -11.626  12.222  1.00 79.97      B
ATOM   6737  CB  GLN B 330     -45.963 -12.065  13.476  1.00 81.57      B
ATOM   6738  CG  GLN B 330     -45.938 -13.586  13.734  1.00 84.27      B
ATOM   6739  CD  GLN B 330     -44.712 -14.065  14.518  1.00 86.39      B
ATOM   6740  OE1 GLN B 330     -43.569 -13.709  14.212  1.00 87.74      B
ATOM   6741  NE2 GLN B 330     -44.952 -14.896  15.529  1.00 86.89      B
ATOM   6742  C   GLN B 330     -44.923 -10.130  12.311  1.00 78.95      B
ATOM   6743  O   GLN B 330     -45.351  -9.344  11.467  1.00 78.42      B
ATOM   6744  N   GLU B 331     -44.201  -9.756  13.358  1.00 78.80      B
ATOM   6745  CA  GLU B 331     -43.858  -8.368  13.619  1.00 78.74      B
ATOM   6746  CB  GLU B 331     -43.022  -8.275  14.899  1.00 82.43      B
ATOM   6747  CG  GLU B 331     -43.479  -9.211  16.017  1.00 87.90      B
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ATOM   6748  CD  GLU B 331     -42.662  -9.052  17.306  1.00 91.82      B
ATOM   6749  OE1 GLU B 331     -41.653  -8.311  17.298  1.00 93.71      B
ATOM   6750  OE2 GLU B 331     -43.022  -9.677  18.331  1.00 93.68      B
ATOM   6751  C   GLU B 331     -43.105  -7.716  12.468  1.00 75.83      B
ATOM   6752  O   GLU B 331     -43.329  -6.547  12.160  1.00 74.76      B
ATOM   6753  N   ASP B 332     -42.213  -8.471  11.839  1.00 73.05      B
ATOM   6754  CA  ASP B 332     -41.447  -7.940  10.731  1.00 70.09      B
ATOM   6755  CB  ASP B 332     -40.505  -9.009  10.189  1.00 68.49      B
ATOM   6756  CG  ASP B 332     -39.536  -9.509  11.239  1.00 67.46      B
ATOM   6757  OD1 ASP B 332     -39.424  -8.872  12.315  1.00 66.03      B
ATOM   6758  OD2 ASP B 332     -38.878 -10.537  10.979  1.00 65.93      B
ATOM   6759  C   ASP B 332     -42.400  -7.470   9.649  1.00 68.98      B
ATOM   6760  O   ASP B 332     -42.316  -6.334   9.186  1.00 69.32      B
ATOM   6761  N   ALA B 333     -43.332  -8.338   9.274  1.00 67.91      B
ATOM   6762  CA  ALA B 333     -44.307  -8.006   8.237  1.00 66.61      B
ATOM   6763  CB  ALA B 333     -45.322  -9.142   8.073  1.00 65.97      B
ATOM   6764  C   ALA B 333     -45.026  -6.713   8.589  1.00 65.47      B
ATOM   6765  O   ALA B 333     -45.269  -5.869   7.724  1.00 66.13      B
ATOM   6766  N   ALA B 334     -45.359  -6.564   9.865  1.00 63.03      B
ATOM   6767  CA  ALA B 334     -46.053  -5.382  10.333  1.00 61.96      B
ATOM   6768  CB  ALA B 334     -46.553  -5.603  11.751  1.00 59.82      B
ATOM   6769  C   ALA B 334     -45.126  -4.177  10.285  1.00 62.13      B
ATOM   6770  O   ALA B 334     -45.497  -3.119   9.775  1.00 62.59      B
ATOM   6771  N   ALA B 335     -43.919  -4.342  10.818  1.00 61.28      B
ATOM   6772  CA  ALA B 335     -42.942  -3.265  10.846  1.00 60.03      B
ATOM   6773  CB  ALA B 335     -41.680  -3.727  11.565  1.00 59.36      B
ATOM   6774  C   ALA B 335     -42.611  -2.808   9.428  1.00 59.94      B
ATOM   6775  O   ALA B 335     -42.536  -1.604   9.154  1.00 61.35      B
ATOM   6776  N   LEU B 336     -42.423  -3.763   8.522  1.00 57.46      B
ATOM   6777  CA  LEU B 336     -42.107  -3.418   7.147  1.00 55.67      B
ATOM   6778  CB  LEU B 336     -41.832  -4.672   6.321  1.00 53.65      B
ATOM   6779  CG  LEU B 336     -41.347  -4.404   4.894  1.00 54.41      B
ATOM   6780  CD1 LEU B 336     -40.074  -3.580   4.917  1.00 54.98      B
ATOM   6781  CD2 LEU B 336     -41.099  -5.715   4.183  1.00 55.57      B
ATOM   6782  C   LEU B 336     -43.267  -2.631   6.550  1.00 55.76      B
ATOM   6783  O   LEU B 336     -43.078  -1.813   5.648  1.00 56.53      B
ATOM   6784  N   ARG B 337     -44.471  -2.877   7.054  1.00 55.58      B
ATOM   6785  CA  ARG B 337     -45.633  -2.149   6.566  1.00 56.32      B
ATOM   6786  CB  ARG B 337     -46.940  -2.818   7.018  1.00 59.20      B
ATOM   6787  CG  ARG B 337     -47.369  -4.009   6.157  1.00 62.30      B
ATOM   6788  CD  ARG B 337     -48.879  -4.267   6.261  1.00 64.72      B
ATOM   6789  NE  ARG B 337     -49.275  -4.927   7.507  1.00 66.76      B
ATOM   6790  CZ  ARG B 337     -49.014  -6.201   7.797  1.00 67.09      B
ATOM   6791  NH1 ARG B 337     -48.354  -6.965   6.931  1.00 66.25      B
ATOM   6792  NH2 ARG B 337     -49.418  -6.713   8.952  1.00 65.39      B
ATOM   6793  C   ARG B 337     -45.550  -0.730   7.112  1.00 54.88      B
ATOM   6794  O   ARG B 337     -45.889   0.234   6.427  1.00 55.37      B
ATOM   6795  N   ALA B 338     -45.084  -0.609   8.351  1.00 53.13      B
ATOM   6796  CA  ALA B 338     -44.931   0.694   8.982  1.00 51.56      B
ATOM   6797  CB  ALA B 338     -44.455   0.532  10.422  1.00 51.54      B
ATOM   6798  C   ALA B 338     -43.901   1.474   8.179  1.00 50.30      B
ATOM   6799  O   ALA B 338     -44.142   2.606   7.773  1.00 49.57      B
ATOM   6800  N   PHE B 339     -42.754   0.846   7.946  1.00 48.51      B
ATOM   6801  CA  PHE B 339     -41.683   1.468   7.189  1.00 47.62      B
ATOM   6802  CB  PHE B 339     -40.598   0.449   6.878  1.00 46.01      B
ATOM   6803  CG  PHE B 339     -39.483   0.992   6.027  1.00 44.59      B
ATOM   6804  CD1 PHE B 339     -38.468   1.751   6.593  1.00 43.75      B
ATOM   6805  CD2 PHE B 339     -39.449   0.742   4.657  1.00 44.06      B
ATOM   6806  CE1 PHE B 339     -37.430   2.243   5.810  1.00 44.11      B
ATOM   6807  CE2 PHE B 339     -38.421   1.229   3.869  1.00 42.86      B
ATOM   6808  CZ  PHE B 339     -37.408   1.983   4.446  1.00 43.02      B
ATOM   6809  C   PHE B 339     -42.170   2.055   5.874  1.00 48.10      B
ATOM   6810  O   PHE B 339     -41.758   3.152   5.480  1.00 47.87      B
ATOM   6811  N   THR B 340     -43.045   1.318   5.196  1.00 47.15      B
ATOM   6812  CA  THR B 340     -43.552   1.755   3.906  1.00 47.55      B
ATOM   6813  CB  THR B 340     -44.270   0.611   3.189  1.00 48.63      B
ATOM   6814  OG1 THR B 340     -43.425  -0.551   3.163  1.00 46.75      B
ATOM   6815  CG2 THR B 340     -44.595   1.026   1.760  1.00 49.16      B
ATOM   6816  C   THR B 340     -44.485   2.960   3.971  1.00 47.41      B
ATOM   6817  O   THR B 340     -44.512   3.782   3.059  1.00 45.20      B
ATOM   6818  N   GLU B 341     -45.255   3.063   5.045  1.00 48.23      B
ATOM   6819  CA  GLU B 341     -46.167   4.186   5.206  1.00 48.64      B
ATOM   6820  CB  GLU B 341     -47.089   3.958   6.389  1.00 51.20      B
ATOM   6821  CG  GLU B 341     -48.041   2.808   6.241  1.00 55.87      B
ATOM   6822  CD  GLU B 341     -48.593   2.381   7.588  1.00 60.37      B
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ATOM	6823	OE1	GLU	B	341	-48.892	3.276	8.417	1.00	60.44	B
ATOM	6824	OE2	GLU	B	341	-48.727	1.156	7.815	1.00	63.15	B
ATOM	6825	C	GLU	B	341	-45.364	5.446	5.464	1.00	48.32	B
ATOM	6826	O	GLU	B	341	-45.649	6.501	4.903	1.00	48.32	B
ATOM	6827	N	ALA	B	342	-44.372	5.334	6.343	1.00	47.26	B
ATOM	6828	CA	ALA	B	342	-43.517	6.464	6.674	1.00	46.62	B
ATOM	6829	CB	ALA	B	342	-42.474	6.046	7.701	1.00	45.40	B
ATOM	6830	C	ALA	B	342	-42.846	6.940	5.387	1.00	45.75	B
ATOM	6831	O	ALA	B	342	-42.918	8.114	5.038	1.00	44.27	B
ATOM	6832	N	MET	B	343	-42.200	6.018	4.681	1.00	45.42	B
ATOM	6833	CA	MET	B	343	-41.544	6.357	3.425	1.00	44.86	B
ATOM	6834	CB	MET	B	343	-40.979	5.102	2.756	1.00	42.63	B
ATOM	6835	CG	MET	B	343	-39.730	4.549	3.410	1.00	41.37	B
ATOM	6836	SD	MET	B	343	-38.277	5.622	3.209	1.00	39.76	B
ATOM	6837	CE	MET	B	343	-37.607	4.980	1.709	1.00	39.75	B
ATOM	6838	C	MET	B	343	-42.549	7.022	2.490	1.00	44.84	B
ATOM	6839	O	MET	B	343	-42.216	7.961	1.764	1.00	46.09	B
ATOM	6840	N	THR	B	344	-43.785	6.540	2.511	1.00	44.48	B
ATOM	6841	CA	THR	B	344	-44.809	7.110	1.650	1.00	44.53	B
ATOM	6842	CB	THR	B	344	-46.073	6.254	1.642	1.00	43.66	B
ATOM	6843	OG1	THR	B	344	-45.758	4.954	1.138	1.00	43.82	B
ATOM	6844	CG2	THR	B	344	-47.127	6.882	0.757	1.00	43.18	B
ATOM	6845	C	THR	B	344	-45.168	8.517	2.098	1.00	44.73	B
ATOM	6846	O	THR	B	344	-45.489	9.381	1.277	1.00	45.47	B
ATOM	6847	N	ARG	B	345	-45.115	8.743	3.403	1.00	44.23	B
ATOM	6848	CA	ARG	B	345	-45.421	10.055	3.939	1.00	44.37	B
ATOM	6849	CB	ARG	B	345	-45.512	10.010	5.469	1.00	45.54	B
ATOM	6850	CG	ARG	B	345	-46.838	9.497	6.003	1.00	45.52	B
ATOM	6851	CD	ARG	B	345	-47.009	9.864	7.465	1.00	47.56	B
ATOM	6852	NE	ARG	B	345	-46.174	9.050	8.340	1.00	49.47	B
ATOM	6853	CZ	ARG	B	345	-46.399	7.765	8.583	1.00	50.32	B
ATOM	6854	NH1	ARG	B	345	-47.435	7.160	8.012	1.00	51.32	B
ATOM	6855	NH2	ARG	B	345	-45.594	7.084	9.390	1.00	50.59	B
ATOM	6856	C	ARG	B	345	-44.315	11.005	3.523	1.00	44.21	B
ATOM	6857	O	ARG	B	345	-44.564	12.175	3.235	1.00	45.32	B
ATOM	6858	N	TYR	B	346	-43.093	10.482	3.488	1.00	44.89	B
ATOM	6859	CA	TYR	B	346	-41.914	11.261	3.126	1.00	45.25	B
ATOM	6860	CB	TYR	B	346	-40.647	10.580	3.657	1.00	43.64	B
ATOM	6861	CG	TYR	B	346	-40.635	10.406	5.160	1.00	42.93	B
ATOM	6862	CD1	TYR	B	346	-41.370	11.256	5.979	1.00	42.72	B
ATOM	6863	CE1	TYR	B	346	-41.352	11.116	7.364	1.00	44.70	B
ATOM	6864	CD2	TYR	B	346	-39.873	9.403	5.765	1.00	43.31	B
ATOM	6865	CE2	TYR	B	346	-39.846	9.256	7.152	1.00	42.25	B
ATOM	6866	CZ	TYR	B	346	-40.590	10.117	7.945	1.00	43.59	B
ATOM	6867	OH	TYR	B	346	-40.588	9.993	9.319	1.00	45.00	B
ATOM	6868	C	TYR	B	346	-41.786	11.474	1.626	1.00	46.32	B
ATOM	6869	O	TYR	B	346	-40.758	11.941	1.146	1.00	47.42	B
ATOM	6870	N	SER	B	347	-42.840	11.135	0.895	1.00	47.40	B
ATOM	6871	CA	SER	B	347	-42.864	11.287	-0.552	1.00	47.86	B
ATOM	6872	CB	SER	B	347	-42.470	12.699	-0.952	1.00	46.71	B
ATOM	6873	OG	SER	B	347	-42.319	12.768	-2.358	1.00	48.53	B
ATOM	6874	C	SER	B	347	-41.954	10.303	-1.271	1.00	49.43	B
ATOM	6875	O	SER	B	347	-41.115	10.700	-2.086	1.00	51.57	B
ATOM	6876	N	ALA	B	348	-42.122	9.020	-0.969	1.00	48.73	B
ATOM	6877	CA	ALA	B	348	-41.327	7.980	-1.603	1.00	48.26	B
ATOM	6878	CB	ALA	B	348	-39.968	7.875	-0.943	1.00	47.75	B
ATOM	6879	C	ALA	B	348	-42.055	6.648	-1.526	1.00	48.67	B
ATOM	6880	O	ALA	B	348	-41.616	5.716	-0.850	1.00	48.19	B
ATOM	6881	N	PRO	B	349	-43.201	6.549	-2.208	1.00	49.01	B
ATOM	6882	CD	PRO	B	349	-43.873	7.585	-3.010	1.00	49.30	B
ATOM	6883	CA	PRO	B	349	-43.968	5.302	-2.199	1.00	48.61	B
ATOM	6884	CB	PRO	B	349	-45.266	5.687	-2.898	1.00	49.14	B
ATOM	6885	CG	PRO	B	349	-44.815	6.762	-3.862	1.00	50.33	B
ATOM	6886	C	PRO	B	349	-43.194	4.216	-2.937	1.00	48.67	B
ATOM	6887	O	PRO	B	349	-42.321	4.500	-3.756	1.00	47.75	B
ATOM	6888	N	PRO	B	350	-43.524	2.952	-2.670	1.00	49.35	B
ATOM	6889	CD	PRO	B	350	-44.499	2.519	-1.650	1.00	48.81	B
ATOM	6890	CA	PRO	B	350	-42.861	1.804	-3.292	1.00	49.29	B
ATOM	6891	CB	PRO	B	350	-43.073	0.716	-2.260	1.00	50.21	B
ATOM	6892	CG	PRO	B	350	-44.492	1.015	-1.805	1.00	49.84	B
ATOM	6893	C	PRO	B	350	-43.336	1.365	-4.678	1.00	49.38	B
ATOM	6894	O	PRO	B	350	-44.484	1.576	-5.060	1.00	47.79	B
ATOM	6895	N	GLY	B	351	-42.421	0.755	-5.425	1.00	50.39	B
ATOM	6896	CA	GLY	B	351	-42.754	0.240	-6.737	1.00	52.48	B
ATOM	6897	C	GLY	B	351	-43.444	-1.064	-6.408	1.00	54.44	B

ATOM	6898	O	GLY	B	351	-44.666	-1.147	-6.418	1.00	54.85	B
ATOM	6899	N	ASP	B	352	-42.657	-2.084	-6.100	1.00	57.05	B
ATOM	6900	CA	ASP	B	352	-43.217	-3.368	-5.702	1.00	60.80	B
ATOM	6901	CB	ASP	B	352	-42.387	-4.517	-6.258	1.00	62.43	B
ATOM	6902	CG	ASP	B	352	-41.886	-4.244	-7.653	1.00	65.46	B
ATOM	6903	OD1	ASP	B	352	-42.714	-4.215	-8.592	1.00	65.92	B
ATOM	6904	OD2	ASP	B	352	-40.660	-4.047	-7.805	1.00	66.24	B
ATOM	6905	C	ASP	B	352	-43.095	-3.350	-4.180	1.00	62.41	B
ATOM	6906	O	ASP	B	352	-42.071	-2.925	-3.639	1.00	62.65	B
ATOM	6907	N	PRO	B	353	-44.137	-3.791	-3.467	1.00	63.25	B
ATOM	6908	CD	PRO	B	353	-45.468	-4.220	-3.926	1.00	63.34	B
ATOM	6909	CA	PRO	B	353	-44.061	-3.790	-2.003	1.00	63.27	B
ATOM	6910	CB	PRO	B	353	-45.382	-4.432	-1.590	1.00	63.59	B
ATOM	6911	CG	PRO	B	353	-46.310	-4.000	-2.689	1.00	64.35	B
ATOM	6912	C	PRO	B	353	-42.853	-4.577	-1.507	1.00	62.68	B
ATOM	6913	O	PRO	B	353	-42.527	-5.638	-2.042	1.00	62.92	B
ATOM	6914	N	PRO	B	354	-42.165	-4.056	-0.485	1.00	61.54	B
ATOM	6915	CD	PRO	B	354	-42.413	-2.793	0.227	1.00	60.98	B
ATOM	6916	CA	PRO	B	354	-40.993	-4.735	0.062	1.00	61.82	B
ATOM	6917	CB	PRO	B	354	-40.365	-3.665	0.942	1.00	61.12	B
ATOM	6918	CG	PRO	B	354	-41.559	-2.954	1.462	1.00	61.56	B
ATOM	6919	C	PRO	B	354	-41.390	-5.976	0.850	1.00	62.62	B
ATOM	6920	O	PRO	B	354	-42.393	-5.980	1.564	1.00	62.55	B
ATOM	6921	N	GLN	B	355	-40.593	-7.027	0.713	1.00	63.98	B
ATOM	6922	CA	GLN	B	355	-40.850	-8.282	1.403	1.00	64.56	B
ATOM	6923	CB	GLN	B	355	-41.117	-9.395	0.386	1.00	68.22	B
ATOM	6924	CG	GLN	B	355	-42.333	-9.162	-0.502	1.00	72.29	B
ATOM	6925	CD	GLN	B	355	-43.577	-8.770	0.293	1.00	75.55	B
ATOM	6926	OE1	GLN	B	355	-43.832	-9.300	1.381	1.00	76.48	B
ATOM	6927	NE2	GLN	B	355	-44.363	-7.845	-0.255	1.00	76.71	B
ATOM	6928	C	GLN	B	355	-39.665	-8.676	2.267	1.00	62.84	B
ATOM	6929	O	GLN	B	355	-38.527	-8.698	1.794	1.00	62.42	B
ATOM	6930	N	PRO	B	356	-39.913	-8.990	3.549	1.00	61.44	B
ATOM	6931	CD	PRO	B	356	-41.170	-8.924	4.312	1.00	60.36	B
ATOM	6932	CA	PRO	B	356	-38.800	-9.379	4.415	1.00	60.86	B
ATOM	6933	CB	PRO	B	356	-39.448	-9.473	5.799	1.00	59.74	B
ATOM	6934	CG	PRO	B	356	-40.861	-9.793	5.497	1.00	59.80	B
ATOM	6935	C	PRO	B	356	-38.160	-10.685	3.963	1.00	60.36	B
ATOM	6936	O	PRO	B	356	-38.817	-11.551	3.395	1.00	60.01	B
ATOM	6937	N	GLU	B	357	-36.862	-10.803	4.199	1.00	60.53	B
ATOM	6938	CA	GLU	B	357	-36.114	-11.992	3.829	1.00	60.71	B
ATOM	6939	CB	GLU	B	357	-35.159	-11.676	2.682	1.00	61.44	B
ATOM	6940	CG	GLU	B	357	-35.848	-11.268	1.400	1.00	62.56	B
ATOM	6941	CD	GLU	B	357	-36.806	-12.328	0.897	1.00	63.67	B
ATOM	6942	OE1	GLU	B	357	-36.473	-13.528	0.988	1.00	64.17	B
ATOM	6943	OE2	GLU	B	357	-37.888	-11.963	0.398	1.00	65.75	B
ATOM	6944	C	GLU	B	357	-35.319	-12.455	5.039	1.00	60.32	B
ATOM	6945	O	GLU	B	357	-35.030	-11.665	5.938	1.00	60.75	B
ATOM	6946	N	TYR	B	358	-34.970	-13.735	5.067	1.00	59.52	B
ATOM	6947	CA	TYR	B	358	-34.203	-14.276	6.180	1.00	59.27	B
ATOM	6948	CB	TYR	B	358	-35.124	-15.108	7.061	1.00	56.71	B
ATOM	6949	CG	TYR	B	358	-36.296	-14.304	7.598	1.00	54.43	B
ATOM	6950	CD1	TYR	B	358	-36.170	-13.513	8.745	1.00	52.67	B
ATOM	6951	CE1	TYR	B	358	-37.249	-12.759	9.229	1.00	51.10	B
ATOM	6952	CD2	TYR	B	358	-37.527	-14.319	6.946	1.00	53.59	B
ATOM	6953	CE2	TYR	B	358	-38.606	-13.569	7.421	1.00	52.92	B
ATOM	6954	CZ	TYR	B	358	-38.461	-12.795	8.559	1.00	50.99	B
ATOM	6955	OH	TYR	B	358	-39.539	-12.072	9.015	1.00	51.15	B
ATOM	6956	C	TYR	B	358	-33.038	-15.096	5.639	1.00	60.08	B
ATOM	6957	O	TYR	B	358	-32.375	-15.833	6.361	1.00	59.50	B
ATOM	6958	N	ASP	B	359	-32.809	-14.924	4.342	1.00	61.96	B
ATOM	6959	CA	ASP	B	359	-31.741	-15.564	3.585	1.00	63.20	B
ATOM	6960	CB	ASP	B	359	-32.338	-16.517	2.542	1.00	65.72	B
ATOM	6961	CG	ASP	B	359	-31.283	-17.175	1.656	1.00	68.36	B
ATOM	6962	OD1	ASP	B	359	-30.329	-16.487	1.226	1.00	69.56	B
ATOM	6963	OD2	ASP	B	359	-31.421	-18.387	1.372	1.00	69.26	B
ATOM	6964	C	ASP	B	359	-31.102	-14.369	2.882	1.00	63.62	B
ATOM	6965	O	ASP	B	359	-31.795	-13.611	2.200	1.00	62.55	B
ATOM	6966	N	LEU	B	360	-29.797	-14.189	3.050	1.00	64.53	B
ATOM	6967	CA	LEU	B	360	-29.117	-13.058	2.426	1.00	64.57	B
ATOM	6968	CB	LEU	B	360	-27.695	-12.931	2.975	1.00	63.76	B
ATOM	6969	CG	LEU	B	360	-26.922	-11.664	2.612	1.00	62.99	B
ATOM	6970	CD1	LEU	B	360	-27.681	-10.459	3.126	1.00	63.70	B
ATOM	6971	CD2	LEU	B	360	-25.526	-11.707	3.217	1.00	62.13	B
ATOM	6972	C	LEU	B	360	-29.086	-13.153	0.899	1.00	65.41	B

ATOM	6973	O	LEU	B	360	-29.127	-12.130	0.209	1.00	65.97	B
ATOM	6974	N	GLU	B	361	-29.018	-14.374	0.371	1.00	65.66	B
ATOM	6975	CA	GLU	B	361	-28.993	-14.572	-1.078	1.00	66.51	B
ATOM	6976	CB	GLU	B	361	-28.643	-16.032	-1.418	1.00	67.73	B
ATOM	6977	CG	GLU	B	361	-27.249	-16.477	-0.971	1.00	69.72	B
ATOM	6978	CD	GLU	B	361	-26.883	-17.878	-1.445	1.00	70.10	B
ATOM	6979	OE1	GLU	B	361	-26.766	-18.091	-2.672	1.00	69.79	B
ATOM	6980	OE2	GLU	B	361	-26.710	-18.767	-0.585	1.00	70.78	B
ATOM	6981	C	GLU	B	361	-30.348	-14.212	-1.693	1.00	66.20	B
ATOM	6982	O	GLU	B	361	-30.456	-13.973	-2.899	1.00	65.46	B
ATOM	6983	N	LEU	B	362	-31.374	-14.172	-0.847	1.00	66.51	B
ATOM	6984	CA	LEU	B	362	-32.736	-13.860	-1.275	1.00	67.05	B
ATOM	6985	CB	LEU	B	362	-33.745	-14.583	-0.382	1.00	66.82	B
ATOM	6986	CG	LEU	B	362	-34.060	-16.027	-0.770	1.00	67.18	B
ATOM	6987	CD1	LEU	B	362	-34.896	-16.673	0.325	1.00	66.95	B
ATOM	6988	CD2	LEU	B	362	-34.793	-16.049	-2.117	1.00	66.26	B
ATOM	6989	C	LEU	B	362	-33.043	-12.373	-1.272	1.00	67.38	B
ATOM	6990	O	LEU	B	362	-34.169	-11.962	-0.999	1.00	67.26	B
ATOM	6991	N	ILE	B	363	-32.036	-11.567	-1.568	1.00	67.94	B
ATOM	6992	CA	ILE	B	363	-32.219	-10.131	-1.612	1.00	67.59	B
ATOM	6993	CB	ILE	B	363	-31.617	-9.449	-0.369	1.00	66.52	B
ATOM	6994	CG2	ILE	B	363	-31.747	-7.940	-0.486	1.00	65.72	B
ATOM	6995	CG1	ILE	B	363	-32.337	-9.934	0.889	1.00	66.50	B
ATOM	6996	CD1	ILE	B	363	-31.865	-9.258	2.168	1.00	66.26	B
ATOM	6997	C	ILE	B	363	-31.539	-9.595	-2.861	1.00	68.19	B
ATOM	6998	O	ILE	B	363	-30.412	-9.976	-3.180	1.00	68.64	B
ATOM	6999	N	THR	B	364	-32.237	-8.726	-3.581	1.00	69.17	B
ATOM	7000	CA	THR	B	364	-31.670	-8.138	-4.779	1.00	70.03	B
ATOM	7001	CB	THR	B	364	-32.488	-8.485	-6.012	1.00	68.67	B
ATOM	7002	OG1	THR	B	364	-32.803	-9.882	-5.991	1.00	67.21	B
ATOM	7003	CG2	THR	B	364	-31.682	-8.174	-7.263	1.00	68.72	B
ATOM	7004	C	THR	B	364	-31.573	-6.621	-4.645	1.00	71.42	B
ATOM	7005	O	THR	B	364	-32.577	-5.906	-4.635	1.00	70.58	B
ATOM	7006	N	SER	B	365	-30.339	-6.151	-4.523	1.00	73.26	B
ATOM	7007	CA	SER	B	365	-30.044	-4.740	-4.377	1.00	75.54	B
ATOM	7008	CB	SER	B	365	-29.382	-4.486	-3.021	1.00	76.93	B
ATOM	7009	OG	SER	B	365	-28.897	-3.157	-2.925	1.00	78.93	B
ATOM	7010	C	SER	B	365	-29.103	-4.336	-5.496	1.00	76.48	B
ATOM	7011	O	SER	B	365	-28.131	-5.039	-5.786	1.00	76.63	B
ATOM	7012	N	CYS	B	366	-29.395	-3.195	-6.115	1.00	77.53	B
ATOM	7013	CA	CYS	B	366	-28.595	-2.682	-7.223	1.00	77.75	B
ATOM	7014	CB	CYS	B	366	-27.177	-2.341	-6.755	1.00	77.66	B
ATOM	7015	SG	CYS	B	366	-27.077	-0.806	-5.804	1.00	79.00	B
ATOM	7016	C	CYS	B	366	-28.549	-3.722	-8.330	1.00	77.63	B
ATOM	7017	O	CYS	B	366	-27.512	-3.932	-8.964	1.00	77.31	B
ATOM	7018	N	SER	B	367	-29.687	-4.374	-8.553	1.00	77.18	B
ATOM	7019	CA	SER	B	367	-29.789	-5.398	-9.579	1.00	77.12	B
ATOM	7020	CB	SER	B	367	-29.449	-4.798	-10.948	1.00	78.15	B
ATOM	7021	OG	SER	B	367	-30.108	-3.556	-11.149	1.00	78.29	B
ATOM	7022	C	SER	B	367	-28.809	-6.525	-9.255	1.00	76.56	B
ATOM	7023	O	SER	B	367	-28.269	-7.162	-10.157	1.00	76.69	B
ATOM	7024	N	SER	B	368	-28.576	-6.757	-7.965	1.00	75.22	B
ATOM	7025	CA	SER	B	368	-27.654	-7.797	-7.523	1.00	73.84	B
ATOM	7026	CB	SER	B	368	-26.287	-7.204	-7.184	1.00	72.94	B
ATOM	7027	OG	SER	B	368	-25.476	-7.099	-8.331	1.00	73.86	B
ATOM	7028	C	SER	B	368	-28.146	-8.545	-6.303	1.00	73.85	B
ATOM	7029	O	SER	B	368	-28.896	-8.018	-5.489	1.00	74.42	B
ATOM	7030	N	ASN	B	369	-27.701	-9.786	-6.187	1.00	73.49	B
ATOM	7031	CA	ASN	B	369	-28.044	-10.629	-5.057	1.00	72.36	B
ATOM	7032	CB	ASN	B	369	-29.078	-11.690	-5.449	1.00	71.93	B
ATOM	7033	CG	ASN	B	369	-28.518	-12.722	-6.414	1.00	71.80	B
ATOM	7034	OD1	ASN	B	369	-28.405	-12.477	-7.611	1.00	70.84	B
ATOM	7035	ND2	ASN	B	369	-28.149	-13.881	-5.886	1.00	72.95	B
ATOM	7036	C	ASN	B	369	-26.739	-11.310	-4.681	1.00	71.80	B
ATOM	7037	O	ASN	B	369	-25.828	-11.414	-5.507	1.00	71.10	B
ATOM	7038	N	VAL	B	370	-26.641	-11.754	-3.436	1.00	70.96	B
ATOM	7039	CA	VAL	B	370	-25.444	-12.442	-2.987	1.00	69.88	B
ATOM	7040	CB	VAL	B	370	-25.227	-12.262	-1.470	1.00	69.48	B
ATOM	7041	CG1	VAL	B	370	-24.026	-13.072	-1.013	1.00	68.06	B
ATOM	7042	CG2	VAL	B	370	-25.029	-10.800	-1.150	1.00	69.01	B
ATOM	7043	C	VAL	B	370	-25.630	-13.923	-3.280	1.00	69.65	B
ATOM	7044	O	VAL	B	370	-26.751	-14.430	-3.255	1.00	69.41	B
ATOM	7045	N	SER	B	371	-24.534	-14.606	-3.580	1.00	69.39	B
ATOM	7046	CA	SER	B	371	-24.574	-16.037	-3.838	1.00	69.57	B
ATOM	7047	CB	SER	B	371	-24.836	-16.332	-5.320	1.00	70.41	B

ATOM	7048	OG	SER	B	371	-25.075	-17.719	-5.528	1.00	70.15	B
ATOM	7049	C	SER	B	371	-23.222	-16.585	-3.427	1.00	69.34	B
ATOM	7050	O	SER	B	371	-22.266	-15.831	-3.260	1.00	68.88	B
ATOM	7051	N	VAL	B	372	-23.140	-17.898	-3.260	1.00	69.63	B
ATOM	7052	CA	VAL	B	372	-21.891	-18.520	-2.850	1.00	68.95	B
ATOM	7053	CB	VAL	B	372	-22.117	-19.445	-1.637	1.00	67.07	B
ATOM	7054	CG1	VAL	B	372	-20.805	-19.687	-0.922	1.00	66.05	B
ATOM	7055	CG2	VAL	B	372	-23.159	-18.837	-0.701	1.00	66.38	B
ATOM	7056	C	VAL	B	372	-21.279	-19.334	-3.984	1.00	70.07	B
ATOM	7057	O	VAL	B	372	-21.879	-19.493	-5.052	1.00	70.45	B
ATOM	7058	N	ALA	B	373	-20.075	-19.834	-3.734	1.00	71.09	B
ATOM	7059	CA	ALA	B	373	-19.327	-20.657	-4.675	1.00	72.28	B
ATOM	7060	CB	ALA	B	373	-18.809	-19.815	-5.836	1.00	71.73	B
ATOM	7061	C	ALA	B	373	-18.167	-21.202	-3.849	1.00	74.00	B
ATOM	7062	O	ALA	B	373	-18.151	-21.025	-2.626	1.00	74.39	B
ATOM	7063	N	HIS	B	374	-17.199	-21.859	-4.488	1.00	75.04	B
ATOM	7064	CA	HIS	B	374	-16.065	-22.409	-3.745	1.00	75.74	B
ATOM	7065	CB	HIS	B	374	-16.278	-23.908	-3.508	1.00	74.40	B
ATOM	7066	CG	HIS	B	374	-17.297	-24.210	-2.455	1.00	73.36	B
ATOM	7067	CD2	HIS	B	374	-18.536	-24.747	-2.534	1.00	73.08	B
ATOM	7068	ND1	HIS	B	374	-17.099	-23.906	-1.122	1.00	73.77	B
ATOM	7069	CE1	HIS	B	374	-18.171	-24.242	-0.431	1.00	72.72	B
ATOM	7070	NE2	HIS	B	374	-19.061	-24.755	-1.263	1.00	72.56	B
ATOM	7071	C	HIS	B	374	-14.728	-22.177	-4.426	1.00	77.20	B
ATOM	7072	O	HIS	B	374	-14.628	-22.237	-5.651	1.00	77.29	B
ATOM	7073	N	ASP	B	375	-13.702	-21.896	-3.626	1.00	79.85	B
ATOM	7074	CA	ASP	B	375	-12.360	-21.673	-4.161	1.00	83.02	B
ATOM	7075	CB	ASP	B	375	-11.572	-20.684	-3.285	1.00	84.25	B
ATOM	7076	CG	ASP	B	375	-11.297	-21.222	-1.885	1.00	85.62	B
ATOM	7077	OD1	ASP	B	375	-12.268	-21.582	-1.189	1.00	85.10	B
ATOM	7078	OD2	ASP	B	375	-10.112	-21.286	-1.484	1.00	86.45	B
ATOM	7079	C	ASP	B	375	-11.656	-23.022	-4.199	1.00	84.48	B
ATOM	7080	O	ASP	B	375	-12.236	-24.029	-3.768	1.00	84.70	B
ATOM	7081	N	ALA	B	376	-10.421	-23.049	-4.702	1.00	84.77	B
ATOM	7082	CA	ALA	B	376	-9.686	-24.303	-4.793	1.00	85.31	B
ATOM	7083	CB	ALA	B	376	-8.224	-24.043	-5.080	1.00	84.98	B
ATOM	7084	C	ALA	B	376	-9.842	-25.076	-3.500	1.00	85.70	B
ATOM	7085	O	ALA	B	376	-10.660	-25.990	-3.426	1.00	85.66	B
ATOM	7086	N	SER	B	377	-9.068	-24.698	-2.486	1.00	85.85	B
ATOM	7087	CA	SER	B	377	-9.131	-25.340	-1.178	1.00	85.80	B
ATOM	7088	CB	SER	B	377	-8.856	-24.328	-0.076	1.00	86.08	B
ATOM	7089	OG	SER	B	377	-7.836	-23.438	-0.456	1.00	87.27	B
ATOM	7090	C	SER	B	377	-10.532	-25.875	-0.976	1.00	85.62	B
ATOM	7091	O	SER	B	377	-10.728	-27.057	-0.709	1.00	86.15	B
ATOM	7092	N	GLY	B	378	-11.506	-24.982	-1.109	1.00	84.53	B
ATOM	7093	CA	GLY	B	378	-12.887	-25.381	-0.943	1.00	83.77	B
ATOM	7094	C	GLY	B	378	-13.695	-24.583	0.064	1.00	83.39	B
ATOM	7095	O	GLY	B	378	-14.724	-25.068	0.532	1.00	82.90	B
ATOM	7096	N	LYS	B	379	-13.255	-23.378	0.419	1.00	82.70	B
ATOM	7097	CA	LYS	B	379	-14.038	-22.591	1.365	1.00	81.80	B
ATOM	7098	CB	LYS	B	379	-13.143	-21.642	2.184	1.00	81.89	B
ATOM	7099	CG	LYS	B	379	-13.879	-20.949	3.352	1.00	82.38	B
ATOM	7100	CD	LYS	B	379	-14.752	-21.940	4.139	1.00	82.96	B
ATOM	7101	CE	LYS	B	379	-15.723	-21.254	5.111	1.00	83.84	B
ATOM	7102	NZ	LYS	B	379	-16.692	-22.240	5.697	1.00	83.94	B
ATOM	7103	C	LYS	B	379	-15.112	-21.804	0.604	1.00	80.86	B
ATOM	7104	O	LYS	B	379	-14.926	-21.427	-0.553	1.00	79.72	B
ATOM	7105	N	ARG	B	380	-16.248	-21.586	1.250	1.00	80.22	B
ATOM	7106	CA	ARG	B	380	-17.340	-20.846	0.642	1.00	78.91	B
ATOM	7107	CB	ARG	B	380	-18.493	-20.765	1.644	1.00	80.97	B
ATOM	7108	CG	ARG	B	380	-18.831	-22.134	2.213	1.00	83.31	B
ATOM	7109	CD	ARG	B	380	-19.479	-22.066	3.576	1.00	86.15	B
ATOM	7110	NE	ARG	B	380	-20.763	-21.379	3.545	1.00	88.92	B
ATOM	7111	CZ	ARG	B	380	-21.610	-21.343	4.570	1.00	90.41	B
ATOM	7112	NH1	ARG	B	380	-21.311	-21.961	5.708	1.00	90.32	B
ATOM	7113	NH2	ARG	B	380	-22.754	-20.677	4.462	1.00	90.74	B
ATOM	7114	C	ARG	B	380	-16.843	-19.458	0.268	1.00	76.95	B
ATOM	7115	O	ARG	B	380	-16.113	-18.827	1.030	1.00	77.01	B
ATOM	7116	N	VAL	B	381	-17.202	-19.000	-0.923	1.00	74.60	B
ATOM	7117	CA	VAL	B	381	-16.805	-17.671	-1.355	1.00	72.07	B
ATOM	7118	CB	VAL	B	381	-15.846	-17.701	-2.570	1.00	72.29	B
ATOM	7119	CG1	VAL	B	381	-15.535	-16.274	-3.034	1.00	69.81	B
ATOM	7120	CG2	VAL	B	381	-14.558	-18.415	-2.194	1.00	73.41	B
ATOM	7121	C	VAL	B	381	-18.062	-16.918	-1.736	1.00	70.29	B
ATOM	7122	O	VAL	B	381	-18.790	-17.307	-2.650	1.00	70.35	B

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ATOM   7123  N   TYR B 382     -18.332 -15.854  -1.000  1.00 68.01      B
ATOM   7124  CA  TYR B 382     -19.488 -15.036  -1.275  1.00 64.71      B
ATOM   7125  CB  TYR B 382     -19.916 -14.321  -0.008  1.00 64.51      B
ATOM   7126  CG  TYR B 382     -20.451 -15.264   1.037  1.00 64.55      B
ATOM   7127  CD1 TYR B 382     -21.724 -15.804   0.919  1.00 64.57      B
ATOM   7128  CE1 TYR B 382     -22.225 -16.677   1.868  1.00 66.07      B
ATOM   7129  CD2 TYR B 382     -19.682 -15.624   2.136  1.00 64.17      B
ATOM   7130  CE2 TYR B 382     -20.170 -16.498   3.093  1.00 66.06      B
ATOM   7131  CZ  TYR B 382     -21.445 -17.024   2.956  1.00 66.57      B
ATOM   7132  OH  TYR B 382     -21.943 -17.893   3.909  1.00 66.80      B
ATOM   7133  C   TYR B 382     -19.058 -14.048  -2.336  1.00 63.45      B
ATOM   7134  O   TYR B 382     -17.956 -13.506  -2.287  1.00 62.81      B
ATOM   7135  N   TYR B 383     -19.921 -13.844  -3.318  1.00 62.78      B
ATOM   7136  CA  TYR B 383     -19.634 -12.927  -4.404  1.00 61.72      B
ATOM   7137  CB  TYR B 383     -18.962 -13.675  -5.568  1.00 62.86      B
ATOM   7138  CG  TYR B 383     -19.820 -14.744  -6.221  1.00 63.98      B
ATOM   7139  CD1 TYR B 383     -20.414 -15.755  -5.460  1.00 63.75      B
ATOM   7140  CE1 TYR B 383     -21.238 -16.715  -6.047  1.00 63.71      B
ATOM   7141  CD2 TYR B 383     -20.065 -14.725  -7.598  1.00 64.02      B
ATOM   7142  CE2 TYR B 383     -20.889 -15.685  -8.199  1.00 64.78      B
ATOM   7143  CZ  TYR B 383     -21.474 -16.675  -7.414  1.00 64.14      B
ATOM   7144  OH  TYR B 383     -22.308 -17.610  -7.986  1.00 62.73      B
ATOM   7145  C   TYR B 383     -20.951 -12.311  -4.842  1.00 61.13      B
ATOM   7146  O   TYR B 383     -22.024 -12.845  -4.552  1.00 60.54      B
ATOM   7147  N   LEU B 384     -20.873 -11.185  -5.537  1.00 60.05      B
ATOM   7148  CA  LEU B 384     -22.075 -10.507  -5.987  1.00 58.83      B
ATOM   7149  CB  LEU B 384     -21.885  -8.998  -5.874  1.00 59.99      B
ATOM   7150  CG  LEU B 384     -23.118  -8.249  -5.383  1.00 61.01      B
ATOM   7151  CD1 LEU B 384     -23.363  -8.597  -3.927  1.00 60.30      B
ATOM   7152  CD2 LEU B 384     -22.912  -6.755  -5.548  1.00 63.19      B
ATOM   7153  C   LEU B 384     -22.405 -10.883  -7.423  1.00 57.86      B
ATOM   7154  O   LEU B 384     -21.526 -10.872  -8.284  1.00 56.09      B
ATOM   7155  N   THR B 385     -23.676 -11.202  -7.677  1.00 57.28      B
ATOM   7156  CA  THR B 385     -24.133 -11.598  -9.014  1.00 56.46      B
ATOM   7157  CB  THR B 385     -24.199 -13.149  -9.138  1.00 55.01      B
ATOM   7158  OG1 THR B 385     -24.540 -13.518 -10.480  1.00 52.35      B
ATOM   7159  CG2 THR B 385     -25.248 -13.713  -8.188  1.00 53.66      B
ATOM   7160  C   THR B 385     -25.514 -11.025  -9.358  1.00 56.41      B
ATOM   7161  O   THR B 385     -26.072 -10.225  -8.603  1.00 55.54      B
ATOM   7162  N   ARG B 386     -26.056 -11.444 -10.502  1.00 56.42      B
ATOM   7163  CA  ARG B 386     -27.374 -10.992 -10.949  1.00 57.50      B
ATOM   7164  CB  ARG B 386     -27.339  -9.503 -11.279  1.00 57.49      B
ATOM   7165  CG  ARG B 386     -26.273  -9.111 -12.287  1.00 57.56      B
ATOM   7166  CD  ARG B 386     -26.570  -7.748 -12.874  1.00 58.19      B
ATOM   7167  NE  ARG B 386     -27.620  -7.818 -13.884  1.00 58.96      B
ATOM   7168  CZ  ARG B 386     -28.299  -6.769 -14.334  1.00 59.81      B
ATOM   7169  NH1 ARG B 386     -28.049  -5.556 -13.860  1.00 60.33      B
ATOM   7170  NH2 ARG B 386     -29.224  -6.932 -15.268  1.00 60.95      B
ATOM   7171  C   ARG B 386     -27.886 -11.741 -12.177  1.00 58.05      B
ATOM   7172  O   ARG B 386     -27.143 -12.479 -12.820  1.00 58.74      B
ATOM   7173  N   ASP B 387     -29.162 -11.553 -12.498  1.00 58.48      B
ATOM   7174  CA  ASP B 387     -29.726 -12.195 -13.672  1.00 58.89      B
ATOM   7175  CB  ASP B 387     -31.220 -11.917 -13.794  1.00 59.97      B
ATOM   7176  CG  ASP B 387     -31.857 -12.682 -14.942  1.00 61.58      B
ATOM   7177  OD1 ASP B 387     -31.378 -12.544 -16.089  1.00 61.31      B
ATOM   7178  OD2 ASP B 387     -32.835 -13.424 -14.695  1.00 62.24      B
ATOM   7179  C   ASP B 387     -28.994 -11.565 -14.846  1.00 58.89      B
ATOM   7180  O   ASP B 387     -29.170 -10.387 -15.142  1.00 58.86      B
ATOM   7181  N   PRO B 388     -28.173 -12.355 -15.540  1.00 58.67      B
ATOM   7182  CD  PRO B 388     -28.101 -13.813 -15.335  1.00 59.74      B
ATOM   7183  CA  PRO B 388     -27.362 -11.958 -16.693  1.00 58.74      B
ATOM   7184  CB  PRO B 388     -26.558 -13.218 -16.984  1.00 58.76      B
ATOM   7185  CG  PRO B 388     -27.532 -14.293 -16.653  1.00 59.53      B
ATOM   7186  C   PRO B 388     -28.073 -11.451 -17.940  1.00 59.12      B
ATOM   7187  O   PRO B 388     -27.421 -10.925 -18.849  1.00 59.74      B
ATOM   7188  N   THR B 389     -29.391 -11.595 -17.998  1.00 58.30      B
ATOM   7189  CA  THR B 389     -30.120 -11.166 -19.188  1.00 57.90      B
ATOM   7190  CB  THR B 389     -31.652 -11.289 -18.983  1.00 57.96      B
ATOM   7191  OG1 THR B 389     -31.980 -12.660 -18.724  1.00 58.67      B
ATOM   7192  CG2 THR B 389     -32.409 -10.832 -20.231  1.00 55.48      B
ATOM   7193  C   THR B 389     -29.774  -9.761 -19.693  1.00 57.92      B
ATOM   7194  O   THR B 389     -29.109  -9.619 -20.726  1.00 56.84      B
ATOM   7195  N   THR B 390     -30.207  -8.726 -18.980  1.00 57.32      B
ATOM   7196  CA  THR B 390     -29.928  -7.372 -19.435  1.00 58.15      B
ATOM   7197  CB  THR B 390     -30.328  -6.334 -18.379  1.00 58.29      B
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ATOM	7198	OG1	THR	B	390	-31.707	-6.517	-18.031	1.00	56.50	B
ATOM	7199	CG2	THR	B	390	-30.143	-4.930	-18.930	1.00	57.12	B
ATOM	7200	C	THR	B	390	-28.454	-7.198	-19.811	1.00	59.08	B
ATOM	7201	O	THR	B	390	-28.131	-6.644	-20.858	1.00	58.83	B
ATOM	7202	N	PRO	B	391	-27.537	-7.673	-18.962	1.00	60.12	B
ATOM	7203	CD	PRO	B	391	-27.676	-8.203	-17.594	1.00	60.23	B
ATOM	7204	CA	PRO	B	391	-26.127	-7.517	-19.323	1.00	61.25	B
ATOM	7205	CB	PRO	B	391	-25.410	-8.265	-18.202	1.00	60.63	B
ATOM	7206	CG	PRO	B	391	-26.291	-7.991	-17.024	1.00	60.48	B
ATOM	7207	C	PRO	B	391	-25.819	-8.100	-20.712	1.00	62.47	B
ATOM	7208	O	PRO	B	391	-25.486	-7.364	-21.642	1.00	63.06	B
ATOM	7209	N	LEU	B	392	-25.947	-9.420	-20.843	1.00	63.40	B
ATOM	7210	CA	LEU	B	392	-25.670	-10.125	-22.096	1.00	63.55	B
ATOM	7211	CB	LEU	B	392	-26.077	-11.596	-21.977	1.00	63.42	B
ATOM	7212	CG	LEU	B	392	-25.423	-12.426	-20.871	1.00	63.31	B
ATOM	7213	CD1	LEU	B	392	-25.879	-13.868	-20.997	1.00	62.99	B
ATOM	7214	CD2	LEU	B	392	-23.910	-12.341	-20.980	1.00	63.46	B
ATOM	7215	C	LEU	B	392	-26.346	-9.528	-23.322	1.00	64.15	B
ATOM	7216	O	LEU	B	392	-25.760	-9.497	-24.404	1.00	64.37	B
ATOM	7217	N	ALA	B	393	-27.585	-9.076	-23.153	1.00	65.01	B
ATOM	7218	CA	ALA	B	393	-28.343	-8.475	-24.246	1.00	65.58	B
ATOM	7219	CB	ALA	B	393	-29.739	-8.087	-23.766	1.00	65.67	B
ATOM	7220	C	ALA	B	393	-27.622	-7.247	-24.795	1.00	65.93	B
ATOM	7221	O	ALA	B	393	-27.442	-7.115	-26.001	1.00	65.99	B
ATOM	7222	N	ARG	B	394	-27.212	-6.348	-23.907	1.00	66.53	B
ATOM	7223	CA	ARG	B	394	-26.514	-5.142	-24.331	1.00	66.94	B
ATOM	7224	CB	ARG	B	394	-26.349	-4.181	-23.149	1.00	66.35	B
ATOM	7225	CG	ARG	B	394	-27.665	-3.675	-22.590	1.00	66.24	B
ATOM	7226	CD	ARG	B	394	-27.466	-2.686	-21.454	1.00	67.17	B
ATOM	7227	NE	ARG	B	394	-28.740	-2.295	-20.851	1.00	68.09	B
ATOM	7228	CZ	ARG	B	394	-28.856	-1.449	-19.831	1.00	69.19	B
ATOM	7229	NH1	ARG	B	394	-27.772	-0.898	-19.297	1.00	70.00	B
ATOM	7230	NH2	ARG	B	394	-30.055	-1.154	-19.341	1.00	68.25	B
ATOM	7231	C	ARG	B	394	-25.155	-5.498	-24.916	1.00	67.35	B
ATOM	7232	O	ARG	B	394	-24.721	-4.907	-25.902	1.00	66.39	B
ATOM	7233	N	ALA	B	395	-24.491	-6.473	-24.306	1.00	69.07	B
ATOM	7234	CA	ALA	B	395	-23.182	-6.903	-24.771	1.00	71.58	B
ATOM	7235	CB	ALA	B	395	-22.723	-8.115	-23.979	1.00	71.13	B
ATOM	7236	C	ALA	B	395	-23.265	-7.245	-26.250	1.00	73.28	B
ATOM	7237	O	ALA	B	395	-22.386	-6.892	-27.037	1.00	73.72	B
ATOM	7238	N	ALA	B	396	-24.341	-7.932	-26.620	1.00	75.53	B
ATOM	7239	CA	ALA	B	396	-24.570	-8.340	-28.007	1.00	77.92	B
ATOM	7240	CB	ALA	B	396	-25.770	-9.265	-28.093	1.00	77.18	B
ATOM	7241	C	ALA	B	396	-24.797	-7.131	-28.902	1.00	80.07	B
ATOM	7242	O	ALA	B	396	-24.282	-7.061	-30.023	1.00	81.15	B
ATOM	7243	N	TRP	B	397	-25.576	-6.180	-28.399	1.00	82.06	B
ATOM	7244	CA	TRP	B	397	-25.902	-4.967	-29.131	1.00	83.47	B
ATOM	7245	CB	TRP	B	397	-26.785	-4.087	-28.251	1.00	83.88	B
ATOM	7246	CG	TRP	B	397	-27.346	-2.917	-28.974	1.00	85.99	B
ATOM	7247	CD2	TRP	B	397	-28.591	-2.867	-29.689	1.00	86.57	B
ATOM	7248	CE2	TRP	B	397	-28.688	-1.580	-30.264	1.00	86.58	B
ATOM	7249	CE3	TRP	B	397	-29.629	-3.790	-29.910	1.00	86.01	B
ATOM	7250	CD1	TRP	B	397	-26.761	-1.693	-29.134	1.00	86.09	B
ATOM	7251	NE1	TRP	B	397	-27.561	-0.884	-29.907	1.00	87.01	B
ATOM	7252	CZ2	TRP	B	397	-29.787	-1.184	-31.037	1.00	86.36	B
ATOM	7253	CZ3	TRP	B	397	-30.725	-3.396	-30.682	1.00	85.51	B
ATOM	7254	CH2	TRP	B	397	-30.790	-2.104	-31.239	1.00	85.90	B
ATOM	7255	C	TRP	B	397	-24.677	-4.179	-29.592	1.00	84.70	B
ATOM	7256	O	TRP	B	397	-24.621	-3.693	-30.721	1.00	84.36	B
ATOM	7257	N	GLU	B	398	-23.697	-4.060	-28.706	1.00	86.32	B
ATOM	7258	CA	GLU	B	398	-22.473	-3.321	-28.983	1.00	87.93	B
ATOM	7259	CB	GLU	B	398	-21.742	-3.099	-27.673	1.00	87.39	B
ATOM	7260	CG	GLU	B	398	-22.692	-2.669	-26.584	1.00	88.21	B
ATOM	7261	CD	GLU	B	398	-22.076	-2.733	-25.216	1.00	89.25	B
ATOM	7262	OE1	GLU	B	398	-21.461	-3.773	-24.894	1.00	90.26	B
ATOM	7263	OE2	GLU	B	398	-22.214	-1.750	-24.459	1.00	88.66	B
ATOM	7264	C	GLU	B	398	-21.572	-4.041	-29.972	1.00	89.67	B
ATOM	7265	O	GLU	B	398	-20.694	-3.433	-30.587	1.00	90.07	B
ATOM	7266	N	THR	B	399	-21.790	-5.341	-30.121	1.00	91.44	B
ATOM	7267	CA	THR	B	399	-21.000	-6.142	-31.043	1.00	93.46	B
ATOM	7268	CB	THR	B	399	-21.109	-7.635	-30.707	1.00	93.22	B
ATOM	7269	OG1	THR	B	399	-20.534	-7.876	-29.417	1.00	93.89	B
ATOM	7270	CG2	THR	B	399	-20.388	-8.473	-31.755	1.00	93.21	B
ATOM	7271	C	THR	B	399	-21.516	-5.930	-32.452	1.00	94.86	B
ATOM	7272	O	THR	B	399	-20.742	-5.763	-33.391	1.00	95.54	B

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ATOM   7273  N   ALA B 400     -22.839  -5.924 -32.582  1.00 96.60      B
ATOM   7274  CA  ALA B 400     -23.482  -5.750 -33.879  1.00 98.29      B
ATOM   7275  CB  ALA B 400     -24.890  -6.354 -33.851  1.00 97.69      B
ATOM   7276  C   ALA B 400     -23.531  -4.296 -34.349  1.00 99.64      B
ATOM   7277  O   ALA B 400     -23.518  -4.037 -35.556  1.00 99.76      B
ATOM   7278  N   ARG B 401     -23.596  -3.351 -33.410  1.00101.32      B
ATOM   7279  CA  ARG B 401     -23.611  -1.942 -33.796  1.00103.68      B
ATOM   7280  CB  ARG B 401     -24.825  -1.199 -33.220  1.00103.96      B
ATOM   7281  CG  ARG B 401     -25.524  -0.342 -34.287  1.00104.49      B
ATOM   7282  CD  ARG B 401     -25.413  -1.047 -35.639  1.00105.47      B
ATOM   7283  NE  ARG B 401     -26.613  -0.928 -36.455  1.00106.20      B
ATOM   7284  CZ  ARG B 401     -26.892  -1.730 -37.477  1.00106.27      B
ATOM   7285  NH1 ARG B 401     -26.055  -2.709 -37.803  1.00106.62      B
ATOM   7286  NH2 ARG B 401     -28.007  -1.558 -38.174  1.00106.55      B
ATOM   7287  C   ARG B 401     -22.306  -1.210 -33.460  1.00105.27      B
ATOM   7288  O   ARG B 401     -21.258  -1.859 -33.276  1.00104.94      B
ATOM   7289  N   HIS B 402     -22.342   0.122 -33.367  1.00107.33      B
ATOM   7290  CA  HIS B 402     -21.088   0.854 -33.140  1.00109.33      B
ATOM   7291  CB  HIS B 402     -21.005   2.166 -33.987  1.00110.80      B
ATOM   7292  CG  HIS B 402     -22.318   2.712 -34.499  1.00112.82      B
ATOM   7293  CD2 HIS B 402     -23.088   3.732 -34.065  1.00113.05      B
ATOM   7294  ND1 HIS B 402     -22.874   2.298 -35.698  1.00113.95      B
ATOM   7295  CE1 HIS B 402     -23.921   3.052 -35.977  1.00113.87      B
ATOM   7296  NE2 HIS B 402     -24.080   3.933 -35.009  1.00113.47      B
ATOM   7297  C   HIS B 402     -20.511   1.230 -31.781  1.00109.75      B
ATOM   7298  O   HIS B 402     -21.072   0.991 -30.720  1.00109.24      B
ATOM   7299  N   THR B 403     -19.309   1.787 -31.891  1.00110.80      B
ATOM   7300  CA  THR B 403     -18.522   2.375 -30.818  1.00111.38      B
ATOM   7301  CB  THR B 403     -18.406   3.827 -31.216  1.00111.71      B
ATOM   7302  OG1 THR B 403     -19.720   4.343 -31.485  1.00112.18      B
ATOM   7303  CG2 THR B 403     -17.620   3.905 -32.526  1.00111.60      B
ATOM   7304  C   THR B 403     -19.040   2.112 -29.375  1.00111.33      B
ATOM   7305  O   THR B 403     -19.227   0.947 -29.042  1.00111.74      B
ATOM   7306  N   PRO B 404     -19.305   3.144 -28.519  1.00111.00      B
ATOM   7307  CD  PRO B 404     -19.759   4.536 -28.738  1.00110.68      B
ATOM   7308  CA  PRO B 404     -19.771   2.733 -27.191  1.00110.61      B
ATOM   7309  CB  PRO B 404     -21.171   3.298 -27.162  1.00110.72      B
ATOM   7310  CG  PRO B 404     -20.848   4.735 -27.625  1.00110.64      B
ATOM   7311  C   PRO B 404     -19.628   1.268 -26.809  1.00110.33      B
ATOM   7312  O   PRO B 404     -20.529   0.434 -26.941  1.00110.48      B
ATOM   7313  N   ILE B 405     -18.405   1.023 -26.357  1.00109.55      B
ATOM   7314  CA  ILE B 405     -17.851  -0.245 -25.919  1.00108.14      B
ATOM   7315  CB  ILE B 405     -16.327  -0.215 -26.198  1.00109.22      B
ATOM   7316  CG2 ILE B 405     -15.669  -1.471 -25.640  1.00109.47      B
ATOM   7317  CG1 ILE B 405     -16.084   0.077 -27.693  1.00110.21      B
ATOM   7318  CD1 ILE B 405     -16.573  -1.013 -28.693  1.00110.34      B
ATOM   7319  C   ILE B 405     -18.118  -0.422 -24.414  1.00106.36      B
ATOM   7320  O   ILE B 405     -17.415  -1.156 -23.710  1.00105.70      B
ATOM   7321  N   ASN B 406     -19.143   0.268 -23.934  1.00104.60      B
ATOM   7322  CA  ASN B 406     -19.543   0.231 -22.538  1.00102.48      B
ATOM   7323  CB  ASN B 406     -20.689   1.232 -22.352  1.00103.82      B
ATOM   7324  CG  ASN B 406     -21.180   1.813 -23.683  1.00104.45      B
ATOM   7325  OD1 ASN B 406     -21.720   1.093 -24.525  1.00104.98      B
ATOM   7326  ND2 ASN B 406     -20.991   3.121 -23.872  1.00104.89      B
ATOM   7327  C   ASN B 406     -19.965  -1.166 -22.080  1.00100.23      B
ATOM   7328  O   ASN B 406     -19.452  -2.183 -22.547  1.00 99.36      B
ATOM   7329  N   SER B 407     -20.922  -1.176 -21.160  1.00 98.22      B
ATOM   7330  CA  SER B 407     -21.498  -2.378 -20.561  1.00 95.87      B
ATOM   7331  CB  SER B 407     -22.819  -2.735 -21.263  1.00 95.30      B
ATOM   7332  OG  SER B 407     -22.602  -3.202 -22.577  1.00 95.80      B
ATOM   7333  C   SER B 407     -20.626  -3.634 -20.424  1.00 94.34      B
ATOM   7334  O   SER B 407     -19.963  -3.817 -19.400  1.00 94.43      B
ATOM   7335  N   TRP B 408     -20.617  -4.489 -21.443  1.00 91.93      B
ATOM   7336  CA  TRP B 408     -19.848  -5.726 -21.369  1.00 89.51      B
ATOM   7337  CB  TRP B 408     -19.589  -6.309 -22.771  1.00 89.48      B
ATOM   7338  CG  TRP B 408     -18.498  -5.648 -23.586  1.00 89.37      B
ATOM   7339  CD2 TRP B 408     -17.093  -5.952 -23.552  1.00 89.18      B
ATOM   7340  CE2 TRP B 408     -16.457  -5.101 -24.485  1.00 88.78      B
ATOM   7341  CE3 TRP B 408     -16.311  -6.866 -22.830  1.00 89.25      B
ATOM   7342  CD1 TRP B 408     -18.648  -4.648 -24.508  1.00 88.86      B
ATOM   7343  NE1 TRP B 408     -17.428  -4.316 -25.051  1.00 88.74      B
ATOM   7344  CZ2 TRP B 408     -15.071  -5.129 -24.706  1.00 88.58      B
ATOM   7345  CZ3 TRP B 408     -14.930  -6.894 -23.051  1.00 88.95      B
ATOM   7346  CH2 TRP B 408     -14.330  -6.033 -23.985  1.00 88.63      B
ATOM   7347  C   TRP B 408     -18.533  -5.582 -20.609  1.00 87.89      B
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ATOM	7348	O	TRP	B	408	-18.260	-6.346	-19.682	1.00	88.13	B
ATOM	7349	N	LEU	B	409	-17.727	-4.596	-20.986	1.00	85.84	B
ATOM	7350	CA	LEU	B	409	-16.453	-4.381	-20.316	1.00	82.84	B
ATOM	7351	CB	LEU	B	409	-15.743	-3.147	-20.895	1.00	81.93	B
ATOM	7352	CG	LEU	B	409	-14.333	-2.870	-20.357	1.00	81.26	B
ATOM	7353	CD1	LEU	B	409	-13.479	-4.121	-20.502	1.00	80.88	B
ATOM	7354	CD2	LEU	B	409	-13.708	-1.700	-21.097	1.00	79.67	B
ATOM	7355	C	LEU	B	409	-16.734	-4.189	-18.831	1.00	80.96	B
ATOM	7356	O	LEU	B	409	-16.239	-4.941	-17.986	1.00	80.67	B
ATOM	7357	N	GLY	B	410	-17.552	-3.188	-18.528	1.00	78.82	B
ATOM	7358	CA	GLY	B	410	-17.902	-2.905	-17.151	1.00	76.75	B
ATOM	7359	C	GLY	B	410	-18.412	-4.127	-16.415	1.00	75.08	B
ATOM	7360	O	GLY	B	410	-17.979	-4.404	-15.293	1.00	74.93	B
ATOM	7361	N	ASN	B	411	-19.330	-4.860	-17.045	1.00	73.62	B
ATOM	7362	CA	ASN	B	411	-19.903	-6.060	-16.440	1.00	71.43	B
ATOM	7363	CB	ASN	B	411	-20.912	-6.717	-17.381	1.00	69.06	B
ATOM	7364	CG	ASN	B	411	-22.249	-6.002	-17.393	1.00	68.62	B
ATOM	7365	OD1	ASN	B	411	-22.808	-5.685	-16.339	1.00	66.75	B
ATOM	7366	ND2	ASN	B	411	-22.778	-5.757	-18.589	1.00	67.93	B
ATOM	7367	C	ASN	B	411	-18.826	-7.063	-16.067	1.00	71.24	B
ATOM	7368	O	ASN	B	411	-18.892	-7.683	-15.003	1.00	71.31	B
ATOM	7369	N	ILE	B	412	-17.836	-7.225	-16.939	1.00	70.23	B
ATOM	7370	CA	ILE	B	412	-16.751	-8.150	-16.658	1.00	69.84	B
ATOM	7371	CB	ILE	B	412	-15.720	-8.180	-17.798	1.00	69.96	B
ATOM	7372	CG2	ILE	B	412	-14.571	-9.121	-17.435	1.00	69.23	B
ATOM	7373	CG1	ILE	B	412	-16.388	-8.632	-19.093	1.00	69.67	B
ATOM	7374	CD1	ILE	B	412	-15.419	-8.793	-20.247	1.00	69.13	B
ATOM	7375	C	ILE	B	412	-16.036	-7.691	-15.394	1.00	70.24	B
ATOM	7376	O	ILE	B	412	-15.977	-8.409	-14.392	1.00	69.77	B
ATOM	7377	N	ILE	B	413	-15.499	-6.478	-15.455	1.00	69.31	B
ATOM	7378	CA	ILE	B	413	-14.775	-5.906	-14.338	1.00	68.34	B
ATOM	7379	CB	ILE	B	413	-14.396	-4.440	-14.638	1.00	68.01	B
ATOM	7380	CG2	ILE	B	413	-13.305	-3.976	-13.683	1.00	66.44	B
ATOM	7381	CG1	ILE	B	413	-13.888	-4.325	-16.080	1.00	67.68	B
ATOM	7382	CD1	ILE	B	413	-13.712	-2.897	-16.560	1.00	66.93	B
ATOM	7383	C	ILE	B	413	-15.605	-5.979	-13.057	1.00	68.74	B
ATOM	7384	O	ILE	B	413	-15.109	-6.412	-12.023	1.00	69.65	B
ATOM	7385	N	MET	B	414	-16.871	-5.583	-13.121	1.00	68.45	B
ATOM	7386	CA	MET	B	414	-17.717	-5.606	-11.927	1.00	68.49	B
ATOM	7387	CB	MET	B	414	-18.929	-4.671	-12.106	1.00	69.21	B
ATOM	7388	CG	MET	B	414	-18.619	-3.163	-12.048	1.00	69.36	B
ATOM	7389	SD	MET	B	414	-17.905	-2.573	-10.466	1.00	69.43	B
ATOM	7390	CE	MET	B	414	-19.371	-2.466	-9.411	1.00	67.54	B
ATOM	7391	C	MET	B	414	-18.216	-6.985	-11.493	1.00	67.92	B
ATOM	7392	O	MET	B	414	-18.378	-7.233	-10.301	1.00	66.61	B
ATOM	7393	N	TYR	B	415	-18.458	-7.880	-12.448	1.00	68.62	B
ATOM	7394	CA	TYR	B	415	-18.969	-9.218	-12.130	1.00	68.48	B
ATOM	7395	CB	TYR	B	415	-20.271	-9.472	-12.894	1.00	65.25	B
ATOM	7396	CG	TYR	B	415	-21.432	-8.655	-12.381	1.00	62.58	B
ATOM	7397	CD1	TYR	B	415	-22.012	-8.932	-11.145	1.00	61.38	B
ATOM	7398	CE1	TYR	B	415	-23.072	-8.168	-10.659	1.00	59.39	B
ATOM	7399	CD2	TYR	B	415	-21.942	-7.592	-13.123	1.00	62.06	B
ATOM	7400	CE2	TYR	B	415	-23.003	-6.823	-12.648	1.00	59.42	B
ATOM	7401	CZ	TYR	B	415	-23.563	-7.117	-11.418	1.00	58.55	B
ATOM	7402	OH	TYR	B	415	-24.624	-6.372	-10.959	1.00	57.60	B
ATOM	7403	C	TYR	B	415	-18.002	-10.365	-12.393	1.00	69.70	B
ATOM	7404	O	TYR	B	415	-18.408	-11.530	-12.427	1.00	70.19	B
ATOM	7405	N	ALA	B	416	-16.726	-10.031	-12.555	1.00	70.52	B
ATOM	7406	CA	ALA	B	416	-15.677	-11.012	-12.820	1.00	70.75	B
ATOM	7407	CB	ALA	B	416	-14.322	-10.423	-12.447	1.00	70.18	B
ATOM	7408	C	ALA	B	416	-15.860	-12.371	-12.137	1.00	70.99	B
ATOM	7409	O	ALA	B	416	-15.570	-13.408	-12.728	1.00	71.17	B
ATOM	7410	N	PRO	B	417	-16.334	-12.386	-10.883	1.00	71.47	B
ATOM	7411	CD	PRO	B	417	-16.368	-11.258	-9.941	1.00	71.75	B
ATOM	7412	CA	PRO	B	417	-16.535	-13.652	-10.166	1.00	72.28	B
ATOM	7413	CB	PRO	B	417	-16.731	-13.203	-8.716	1.00	72.51	B
ATOM	7414	CG	PRO	B	417	-15.976	-11.926	-8.650	1.00	72.64	B
ATOM	7415	C	PRO	B	417	-17.706	-14.519	-10.634	1.00	72.38	B
ATOM	7416	O	PRO	B	417	-17.738	-15.714	-10.347	1.00	72.49	B
ATOM	7417	N	THR	B	418	-18.665	-13.931	-11.344	1.00	72.16	B
ATOM	7418	CA	THR	B	418	-19.829	-14.695	-11.785	1.00	72.52	B
ATOM	7419	CB	THR	B	418	-20.986	-13.787	-12.236	1.00	72.42	B
ATOM	7420	OG1	THR	B	418	-20.653	-13.185	-13.491	1.00	71.62	B
ATOM	7421	CG2	THR	B	418	-21.262	-12.708	-11.199	1.00	72.94	B
ATOM	7422	C	THR	B	418	-19.571	-15.674	-12.920	1.00	72.64	B

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ATOM   7423  O   THR B 418     -18.638 -15.512 -13.711  1.00 72.12      B
ATOM   7424  N   LEU B 419     -20.433 -16.686 -12.987  1.00 72.35      B
ATOM   7425  CA  LEU B 419     -20.370 -17.729 -14.001  1.00 71.13      B
ATOM   7426  CB  LEU B 419     -21.543 -18.684 -13.807  1.00 71.55      B
ATOM   7427  CG  LEU B 419     -21.503 -20.024 -14.534  1.00 72.72      B
ATOM   7428  CD1 LEU B 419     -20.405 -20.888 -13.927  1.00 72.94      B
ATOM   7429  CD2 LEU B 419     -22.853 -20.717 -14.407  1.00 72.50      B
ATOM   7430  C   LEU B 419     -20.426 -17.137 -15.412  1.00 70.97      B
ATOM   7431  O   LEU B 419     -19.487 -17.283 -16.197  1.00 71.97      B
ATOM   7432  N   TRP B 420     -21.530 -16.464 -15.725  1.00 69.07      B
ATOM   7433  CA  TRP B 420     -21.727 -15.860 -17.043  1.00 67.67      B
ATOM   7434  CB  TRP B 420     -23.073 -15.126 -17.095  1.00 65.37      B
ATOM   7435  CG  TRP B 420     -23.420 -14.377 -15.846  1.00 62.32      B
ATOM   7436  CD2 TRP B 420     -23.330 -12.963 -15.639  1.00 60.66      B
ATOM   7437  CE2 TRP B 420     -23.792 -12.704 -14.329  1.00 61.29      B
ATOM   7438  CE3 TRP B 420     -22.912 -11.888 -16.433  1.00 59.42      B
ATOM   7439  CD1 TRP B 420     -23.908 -14.904 -14.688  1.00 61.73      B
ATOM   7440  NE1 TRP B 420     -24.136 -13.908 -13.771  1.00 61.58      B
ATOM   7441  CZ2 TRP B 420     -23.843 -11.411 -13.791  1.00 60.74      B
ATOM   7442  CZ3 TRP B 420     -22.961 -10.601 -15.900  1.00 58.54      B
ATOM   7443  CH2 TRP B 420     -23.427 -10.375 -14.592  1.00 60.00      B
ATOM   7444  C   TRP B 420     -20.631 -14.909 -17.519  1.00 67.55      B
ATOM   7445  O   TRP B 420     -20.233 -14.940 -18.687  1.00 67.86      B
ATOM   7446  N   ALA B 421     -20.156 -14.052 -16.625  1.00 67.06      B
ATOM   7447  CA  ALA B 421     -19.122 -13.099 -16.987  1.00 66.02      B
ATOM   7448  CB  ALA B 421     -18.813 -12.195 -15.809  1.00 66.00      B
ATOM   7449  C   ALA B 421     -17.872 -13.836 -17.419  1.00 66.65      B
ATOM   7450  O   ALA B 421     -17.202 -13.422 -18.364  1.00 66.66      B
ATOM   7451  N   ARG B 422     -17.573 -14.936 -16.729  1.00 67.41      B
ATOM   7452  CA  ARG B 422     -16.389 -15.743 -17.016  1.00 67.84      B
ATOM   7453  CB  ARG B 422     -16.047 -16.616 -15.807  1.00 66.34      B
ATOM   7454  CG  ARG B 422     -15.778 -15.849 -14.524  1.00 66.37      B
ATOM   7455  CD  ARG B 422     -15.452 -16.798 -13.366  1.00 65.63      B
ATOM   7456  NE  ARG B 422     -14.162 -17.460 -13.546  1.00 64.34      B
ATOM   7457  CZ  ARG B 422     -13.741 -18.490 -12.820  1.00 63.97      B
ATOM   7458  NH1 ARG B 422     -14.508 -18.985 -11.858  1.00 62.23      B
ATOM   7459  NH2 ARG B 422     -12.550 -19.027 -13.059  1.00 64.45      B
ATOM   7460  C   ARG B 422     -16.535 -16.637 -18.248  1.00 69.25      B
ATOM   7461  O   ARG B 422     -15.790 -16.504 -19.225  1.00 68.98      B
ATOM   7462  N   MET B 423     -17.498 -17.551 -18.191  1.00 70.96      B
ATOM   7463  CA  MET B 423     -17.742 -18.485 -19.280  1.00 71.77      B
ATOM   7464  CB  MET B 423     -18.752 -19.544 -18.847  1.00 70.53      B
ATOM   7465  CG  MET B 423     -18.244 -20.480 -17.779  1.00 70.32      B
ATOM   7466  SD  MET B 423     -19.413 -21.798 -17.418  1.00 70.95      B
ATOM   7467  CE  MET B 423     -18.979 -23.003 -18.679  1.00 70.49      B
ATOM   7468  C   MET B 423     -18.231 -17.846 -20.568  1.00 73.05      B
ATOM   7469  O   MET B 423     -17.795 -18.220 -21.655  1.00 74.54      B
ATOM   7470  N   ILE B 424     -19.131 -16.878 -20.453  1.00 73.97      B
ATOM   7471  CA  ILE B 424     -19.695 -16.236 -21.633  1.00 75.33      B
ATOM   7472  CB  ILE B 424     -21.175 -15.901 -21.387  1.00 76.33      B
ATOM   7473  CG2 ILE B 424     -21.805 -15.328 -22.658  1.00 75.54      B
ATOM   7474  CG1 ILE B 424     -21.901 -17.169 -20.918  1.00 76.48      B
ATOM   7475  CD1 ILE B 424     -23.335 -16.953 -20.504  1.00 78.42      B
ATOM   7476  C   ILE B 424     -18.977 -14.983 -22.124  1.00 75.61      B
ATOM   7477  O   ILE B 424     -18.266 -15.019 -23.131  1.00 75.22      B
ATOM   7478  N   LEU B 425     -19.176 -13.874 -21.419  1.00 76.29      B
ATOM   7479  CA  LEU B 425     -18.557 -12.611 -21.802  1.00 76.20      B
ATOM   7480  CB  LEU B 425     -18.764 -11.560 -20.703  1.00 74.35      B
ATOM   7481  CG  LEU B 425     -20.190 -11.003 -20.632  1.00 72.93      B
ATOM   7482  CD1 LEU B 425     -20.294  -9.960 -19.531  1.00 71.58      B
ATOM   7483  CD2 LEU B 425     -20.561 -10.399 -21.978  1.00 71.25      B
ATOM   7484  C   LEU B 425     -17.076 -12.730 -22.147  1.00 76.77      B
ATOM   7485  O   LEU B 425     -16.675 -12.391 -23.257  1.00 77.67      B
ATOM   7486  N   MET B 426     -16.266 -13.225 -21.217  1.00 77.09      B
ATOM   7487  CA  MET B 426     -14.835 -13.356 -21.469  1.00 78.58      B
ATOM   7488  CB  MET B 426     -14.137 -13.949 -20.248  1.00 77.42      B
ATOM   7489  CG  MET B 426     -14.286 -13.093 -19.016  1.00 76.82      B
ATOM   7490  SD  MET B 426     -13.382 -13.737 -17.621  1.00 77.41      B
ATOM   7491  CE  MET B 426     -13.111 -12.241 -16.670  1.00 78.34      B
ATOM   7492  C   MET B 426     -14.524 -14.196 -22.704  1.00 79.95      B
ATOM   7493  O   MET B 426     -13.791 -13.760 -23.598  1.00 81.15      B
ATOM   7494  N   THR B 427     -15.077 -15.401 -22.757  1.00 80.55      B
ATOM   7495  CA  THR B 427     -14.842 -16.272 -23.899  1.00 80.71      B
ATOM   7496  CB  THR B 427     -15.720 -17.530 -23.840  1.00 79.84      B
ATOM   7497  OG1 THR B 427     -15.447 -18.252 -22.635  1.00 78.87      B
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ATOM   7498  CG2 THR B 427     -15.438 -18.428 -25.035  1.00 80.01       B
ATOM   7499  C   THR B 427     -15.162 -15.534 -25.194  1.00 81.51       B
ATOM   7500  O   THR B 427     -14.294 -15.367 -26.050  1.00 81.26       B
ATOM   7501  N   HIS B 428     -16.408 -15.085 -25.314  1.00 82.55       B
ATOM   7502  CA  HIS B 428     -16.870 -14.390 -26.500  1.00 84.56       B
ATOM   7503  CB  HIS B 428     -18.308 -13.913 -26.324  1.00 83.89       B
ATOM   7504  CG  HIS B 428     -18.868 -13.251 -27.522  1.00 84.75       B
ATOM   7505  CD2 HIS B 428     -19.073 -11.946 -27.853  1.00 84.68       B
ATOM   7506  ND1 HIS B 428     -19.297 -13.954 -28.659  1.00 85.05       B
ATOM   7507  CE1 HIS B 428     -19.717 -13.128 -29.574  1.00 84.36       B
ATOM   7508  NE2 HIS B 428     -19.590 -11.875 -29.097  1.00 84.67       B
ATOM   7509  C   HIS B 428     -16.022 -13.201 -26.921  1.00 86.20       B
ATOM   7510  O   HIS B 428     -15.310 -13.265 -27.925  1.00 87.22       B
ATOM   7511  N   PHE B 429     -16.110 -12.112 -26.161  1.00 87.54       B
ATOM   7512  CA  PHE B 429     -15.367 -10.897 -26.477  1.00 88.07       B
ATOM   7513  CB  PHE B 429     -15.636  -9.821 -25.421  1.00 86.61       B
ATOM   7514  CG  PHE B 429     -16.900  -9.053 -25.675  1.00 85.67       B
ATOM   7515  CD1 PHE B 429     -17.015  -8.241 -26.802  1.00 84.73       B
ATOM   7516  CD2 PHE B 429     -17.995  -9.187 -24.834  1.00 84.75       B
ATOM   7517  CE1 PHE B 429     -18.202  -7.576 -27.091  1.00 84.07       B
ATOM   7518  CE2 PHE B 429     -19.188  -8.527 -25.114  1.00 84.96       B
ATOM   7519  CZ  PHE B 429     -19.290  -7.719 -26.249  1.00 84.74       B
ATOM   7520  C   PHE B 429     -13.876 -11.072 -26.698  1.00 89.08       B
ATOM   7521  O   PHE B 429     -13.308 -10.432 -27.585  1.00 89.38       B
ATOM   7522  N   PHE B 430     -13.228 -11.930 -25.918  1.00 89.85       B
ATOM   7523  CA  PHE B 430     -11.804 -12.127 -26.140  1.00 91.15       B
ATOM   7524  CB  PHE B 430     -11.194 -13.039 -25.073  1.00 92.08       B
ATOM   7525  CG  PHE B 430     -10.521 -12.287 -23.956  1.00 92.74       B
ATOM   7526  CD1 PHE B 430     -11.265 -11.727 -22.923  1.00 93.05       B
ATOM   7527  CD2 PHE B 430      -9.140 -12.104 -23.961  1.00 92.99       B
ATOM   7528  CE1 PHE B 430     -10.644 -10.992 -21.909  1.00 93.73       B
ATOM   7529  CE2 PHE B 430      -8.509 -11.369 -22.953  1.00 93.60       B
ATOM   7530  CZ  PHE B 430      -9.263 -10.813 -21.926  1.00 93.87       B
ATOM   7531  C   PHE B 430     -11.590 -12.709 -27.534  1.00 91.15       B
ATOM   7532  O   PHE B 430     -10.607 -12.397 -28.202  1.00 91.03       B
ATOM   7533  N   SER B 431     -12.522 -13.542 -27.981  1.00 91.53       B
ATOM   7534  CA  SER B 431     -12.410 -14.127 -29.307  1.00 91.80       B
ATOM   7535  CB  SER B 431     -13.514 -15.159 -29.540  1.00 91.10       B
ATOM   7536  OG  SER B 431     -13.301 -16.308 -28.740  1.00 89.90       B
ATOM   7537  C   SER B 431     -12.495 -13.021 -30.345  1.00 92.40       B
ATOM   7538  O   SER B 431     -11.656 -12.943 -31.237  1.00 93.08       B
ATOM   7539  N   ILE B 432     -13.498 -12.158 -30.228  1.00 92.94       B
ATOM   7540  CA  ILE B 432     -13.639 -11.062 -31.180  1.00 94.23       B
ATOM   7541  CB  ILE B 432     -14.989 -10.311 -30.999  1.00 93.70       B
ATOM   7542  CG2 ILE B 432     -15.096  -9.169 -32.005  1.00 92.41       B
ATOM   7543  CG1 ILE B 432     -16.158 -11.275 -31.224  1.00 93.91       B
ATOM   7544  CD1 ILE B 432     -17.527 -10.614 -31.176  1.00 93.84       B
ATOM   7545  C   ILE B 432     -12.474 -10.081 -31.016  1.00 95.38       B
ATOM   7546  O   ILE B 432     -12.291  -9.180 -31.837  1.00 95.60       B
ATOM   7547  N   LEU B 433     -11.682 -10.266 -29.961  1.00 96.51       B
ATOM   7548  CA  LEU B 433     -10.534  -9.396 -29.711  1.00 97.32       B
ATOM   7549  CB  LEU B 433     -10.074  -9.488 -28.252  1.00 97.50       B
ATOM   7550  CG  LEU B 433     -10.710  -8.511 -27.258  1.00 97.70       B
ATOM   7551  CD1 LEU B 433     -10.036  -8.664 -25.904  1.00 98.08       B
ATOM   7552  CD2 LEU B 433     -10.557  -7.077 -27.759  1.00 97.02       B
ATOM   7553  C   LEU B 433      -9.368  -9.730 -30.628  1.00 97.78       B
ATOM   7554  O   LEU B 433      -9.187  -9.082 -31.658  1.00 97.91       B
ATOM   7555  N   LEU B 434      -8.574 -10.734 -30.256  1.00 98.21       B
ATOM   7556  CA  LEU B 434      -7.438 -11.131 -31.081  1.00 98.35       B
ATOM   7557  CB  LEU B 434      -6.773 -12.403 -30.534  1.00 97.58       B
ATOM   7558  CG  LEU B 434      -7.602 -13.415 -29.740  1.00 96.72       B
ATOM   7559  CD1 LEU B 434      -6.832 -14.718 -29.608  1.00 96.42       B
ATOM   7560  CD2 LEU B 434      -7.911 -12.848 -28.369  1.00 96.41       B
ATOM   7561  C   LEU B 434      -7.900 -11.352 -32.517  1.00 98.78       B
ATOM   7562  O   LEU B 434      -7.089 -11.394 -33.442  1.00 98.54       B
ATOM   7563  N   ALA B 435      -9.213 -11.483 -32.691  1.00 99.46       B
ATOM   7564  CA  ALA B 435      -9.807 -11.673 -34.008  1.00100.19       B
ATOM   7565  CB  ALA B 435     -11.270 -12.075 -33.872  1.00 99.60       B
ATOM   7566  C   ALA B 435      -9.697 -10.362 -34.781  1.00100.75       B
ATOM   7567  O   ALA B 435     -10.172 -10.250 -35.912  1.00100.72       B
ATOM   7568  N   GLN B 436      -9.074  -9.369 -34.152  1.00101.09       B
ATOM   7569  CA  GLN B 436      -8.885  -8.056 -34.756  1.00101.89       B
ATOM   7570  CB  GLN B 436     -10.119  -7.185 -34.521  1.00101.73       B
ATOM   7571  CG  GLN B 436     -11.433  -7.891 -34.823  1.00101.92       B
ATOM   7572  CD  GLN B 436     -12.629  -6.973 -34.725  1.00102.03       B
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ATOM   7573  OE1 GLN B 436     -12.795  -6.259 -33.738  1.00101.66      B
ATOM   7574  NE2 GLN B 436     -13.477  -6.992 -35.750  1.00101.95      B
ATOM   7575  C   GLN B 436      -7.661  -7.401 -34.128  1.00102.61      B
ATOM   7576  O   GLN B 436      -7.324  -6.257 -34.438  1.00102.20      B
ATOM   7577  N   GLU B 437      -7.014  -8.145 -33.234  1.00104.10      B
ATOM   7578  CA  GLU B 437      -5.811  -7.703 -32.530  1.00105.52      B
ATOM   7579  CB  GLU B 437      -4.709  -7.373 -33.547  1.00106.11      B
ATOM   7580  CG  GLU B 437      -3.333  -7.153 -32.933  1.00106.76      B
ATOM   7581  CD  GLU B 437      -2.901  -8.309 -32.049  1.00107.17      B
ATOM   7582  OE1 GLU B 437      -2.804  -9.446 -32.562  1.00106.83      B
ATOM   7583  OE2 GLU B 437      -2.662  -8.077 -30.842  1.00107.10      B
ATOM   7584  C   GLU B 437      -6.045  -6.508 -31.601  1.00106.14      B
ATOM   7585  O   GLU B 437      -5.106  -5.795 -31.239  1.00106.39      B
ATOM   7586  N   GLN B 438      -7.295  -6.305 -31.197  1.00106.58      B
ATOM   7587  CA  GLN B 438      -7.642  -5.191 -30.319  1.00106.80      B
ATOM   7588  CB  GLN B 438      -9.132  -4.878 -30.438  1.00107.38      B
ATOM   7589  CG  GLN B 438      -9.567  -4.484 -31.835  1.00108.72      B
ATOM   7590  CD  GLN B 438     -11.054  -4.204 -31.918  1.00109.67      B
ATOM   7591  OE1 GLN B 438     -11.877  -5.065 -31.599  1.00109.69      B
ATOM   7592  NE2 GLN B 438     -11.408  -2.996 -32.348  1.00109.73      B
ATOM   7593  C   GLN B 438      -7.296  -5.429 -28.852  1.00106.54      B
ATOM   7594  O   GLN B 438      -7.737  -4.681 -27.980  1.00106.69      B
ATOM   7595  N   LEU B 439      -6.511  -6.466 -28.577  1.00106.14      B
ATOM   7596  CA  LEU B 439      -6.116  -6.775 -27.206  1.00105.76      B
ATOM   7597  CB  LEU B 439      -5.159  -7.969 -27.190  1.00106.63      B
ATOM   7598  CG  LEU B 439      -5.712  -9.285 -27.746  1.00107.32      B
ATOM   7599  CD1 LEU B 439      -4.597 -10.315 -27.838  1.00107.63      B
ATOM   7600  CD2 LEU B 439      -6.837  -9.787 -26.854  1.00107.20      B
ATOM   7601  C   LEU B 439      -5.427  -5.556 -26.609  1.00104.98      B
ATOM   7602  O   LEU B 439      -5.100  -5.521 -25.422  1.00103.98      B
ATOM   7603  N   GLU B 440      -5.222  -4.553 -27.458  1.00104.78      B
ATOM   7604  CA  GLU B 440      -4.565  -3.313 -27.070  1.00104.49      B
ATOM   7605  CB  GLU B 440      -3.670  -2.828 -28.213  1.00105.85      B
ATOM   7606  CG  GLU B 440      -2.777  -3.904 -28.818  1.00108.03      B
ATOM   7607  CD  GLU B 440      -1.745  -4.436 -27.840  1.00108.88      B
ATOM   7608  OE1 GLU B 440      -0.935  -3.630 -27.330  1.00108.75      B
ATOM   7609  OE2 GLU B 440      -1.742  -5.661 -27.588  1.00109.77      B
ATOM   7610  C   GLU B 440      -5.565  -2.211 -26.726  1.00103.14      B
ATOM   7611  O   GLU B 440      -5.769  -1.880 -25.556  1.00102.98      B
ATOM   7612  N   LYS B 441      -6.180  -1.654 -27.764  1.00101.34      B
ATOM   7613  CA  LYS B 441      -7.143  -0.571 -27.624  1.00100.06      B
ATOM   7614  CB  LYS B 441      -8.197  -0.657 -28.728  1.00 99.46      B
ATOM   7615  CG  LYS B 441      -9.202   0.481 -28.682  1.00 99.72      B
ATOM   7616  CD  LYS B 441     -10.337   0.295 -29.682  1.00 99.95      B
ATOM   7617  CE  LYS B 441      -9.872   0.457 -31.119  1.00 99.99      B
ATOM   7618  NZ  LYS B 441     -11.008   0.298 -32.074  1.00100.39      B
ATOM   7619  C   LYS B 441      -7.844  -0.499 -26.269  1.00100.09      B
ATOM   7620  O   LYS B 441      -8.646  -1.369 -25.922  1.00 99.95      B
ATOM   7621  N   ALA B 442      -7.525   0.544 -25.504  1.00 99.48      B
ATOM   7622  CA  ALA B 442      -8.139   0.771 -24.200  1.00 97.72      B
ATOM   7623  CB  ALA B 442      -7.276   1.706 -23.367  1.00 97.13      B
ATOM   7624  C   ALA B 442      -9.493   1.413 -24.487  1.00 96.67      B
ATOM   7625  O   ALA B 442      -9.587   2.339 -25.294  1.00 95.81      B
ATOM   7626  N   LEU B 443     -10.542   0.923 -23.834  1.00 96.00      B
ATOM   7627  CA  LEU B 443     -11.880   1.453 -24.075  1.00 95.17      B
ATOM   7628  CB  LEU B 443     -12.725   0.384 -24.766  1.00 95.55      B
ATOM   7629  CG  LEU B 443     -12.191   0.084 -26.168  1.00 95.85      B
ATOM   7630  CD1 LEU B 443     -12.544  -1.328 -26.587  1.00 95.49      B
ATOM   7631  CD2 LEU B 443     -12.740   1.121 -27.137  1.00 95.29      B
ATOM   7632  C   LEU B 443     -12.598   1.972 -22.838  1.00 94.03      B
ATOM   7633  O   LEU B 443     -12.335   1.531 -21.718  1.00 93.37      B
ATOM   7634  N   ASP B 444     -13.512   2.913 -23.064  1.00 92.87      B
ATOM   7635  CA  ASP B 444     -14.286   3.533 -21.991  1.00 91.36      B
ATOM   7636  CB  ASP B 444     -14.971   4.815 -22.498  1.00 91.80      B
ATOM   7637  CG  ASP B 444     -14.055   5.679 -23.356  1.00 92.19      B
ATOM   7638  OD1 ASP B 444     -13.037   6.188 -22.836  1.00 92.09      B
ATOM   7639  OD2 ASP B 444     -14.360   5.849 -24.558  1.00 91.77      B
ATOM   7640  C   ASP B 444     -15.356   2.588 -21.438  1.00 89.29      B
ATOM   7641  O   ASP B 444     -15.860   1.713 -22.145  1.00 89.18      B
ATOM   7642  N   CYS B 445     -15.694   2.776 -20.168  1.00 86.83      B
ATOM   7643  CA  CYS B 445     -16.717   1.980 -19.501  1.00 84.10      B
ATOM   7644  CB  CYS B 445     -16.178   0.589 -19.145  1.00 83.26      B
ATOM   7645  SG  CYS B 445     -14.796   0.549 -17.983  1.00 82.66      B
ATOM   7646  C   CYS B 445     -17.167   2.723 -18.244  1.00 82.64      B
ATOM   7647  O   CYS B 445     -16.386   3.442 -17.626  1.00 82.14      B
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ATOM   7648  N   GLN B 446     -18.428   2.554 -17.871  1.00 80.96      B
ATOM   7649  CA  GLN B 446     -18.970   3.237 -16.704  1.00 79.57      B
ATOM   7650  CB  GLN B 446     -20.453   3.524 -16.930  1.00 79.03      B
ATOM   7651  CG  GLN B 446     -20.719   4.387 -18.152  1.00 79.03      B
ATOM   7652  CD  GLN B 446     -20.753   5.868 -17.827  1.00 78.21      B
ATOM   7653  OE1 GLN B 446     -21.740   6.370 -17.284  1.00 77.02      B
ATOM   7654  NE2 GLN B 446     -19.673   6.574 -18.150  1.00 77.01      B
ATOM   7655  C   GLN B 446     -18.800   2.461 -15.407  1.00 78.95      B
ATOM   7656  O   GLN B 446     -18.798   1.235 -15.402  1.00 78.70      B
ATOM   7657  N   ILE B 447     -18.638   3.192 -14.308  1.00 78.49      B
ATOM   7658  CA  ILE B 447     -18.513   2.594 -12.982  1.00 77.95      B
ATOM   7659  CB  ILE B 447     -17.052   2.299 -12.595  1.00 77.57      B
ATOM   7660  CG2 ILE B 447     -16.984   1.858 -11.130  1.00 77.44      B
ATOM   7661  CG1 ILE B 447     -16.495   1.194 -13.497  1.00 77.28      B
ATOM   7662  CD1 ILE B 447     -15.131   0.682 -13.090  1.00 76.59      B
ATOM   7663  C   ILE B 447     -19.121   3.553 -11.969  1.00 78.43      B
ATOM   7664  O   ILE B 447     -18.445   4.430 -11.425  1.00 78.34      B
ATOM   7665  N   TYR B 448     -20.415   3.368 -11.728  1.00 79.39      B
ATOM   7666  CA  TYR B 448     -21.171   4.205 -10.811  1.00 80.06      B
ATOM   7667  CB  TYR B 448     -20.535   4.206  -9.414  1.00 79.44      B
ATOM   7668  CG  TYR B 448     -20.579   2.872  -8.692  1.00 79.30      B
ATOM   7669  CD1 TYR B 448     -21.759   2.125  -8.621  1.00 78.53      B
ATOM   7670  CE1 TYR B 448     -21.809   0.917  -7.922  1.00 78.16      B
ATOM   7671  CD2 TYR B 448     -19.446   2.374  -8.044  1.00 79.94      B
ATOM   7672  CE2 TYR B 448     -19.486   1.168  -7.342  1.00 79.72      B
ATOM   7673  CZ  TYR B 448     -20.667   0.446  -7.285  1.00 79.16      B
ATOM   7674  OH  TYR B 448     -20.696  -0.743  -6.589  1.00 79.10      B
ATOM   7675  C   TYR B 448     -21.200   5.619 -11.381  1.00 81.12      B
ATOM   7676  O   TYR B 448     -20.934   6.595 -10.678  1.00 82.55      B
ATOM   7677  N   GLY B 449     -21.518   5.715 -12.669  1.00 81.43      B
ATOM   7678  CA  GLY B 449     -21.580   7.004 -13.330  1.00 81.63      B
ATOM   7679  C   GLY B 449     -20.225   7.525 -13.760  1.00 81.98      B
ATOM   7680  O   GLY B 449     -20.111   8.236 -14.755  1.00 82.58      B
ATOM   7681  N   ALA B 450     -19.192   7.172 -13.007  1.00 83.00      B
ATOM   7682  CA  ALA B 450     -17.845   7.618 -13.316  1.00 84.95      B
ATOM   7683  CB  ALA B 450     -16.923   7.362 -12.119  1.00 84.60      B
ATOM   7684  C   ALA B 450     -17.307   6.918 -14.561  1.00 86.53      B
ATOM   7685  O   ALA B 450     -17.162   5.695 -14.586  1.00 86.42      B
ATOM   7686  N   CYS B 451     -17.018   7.700 -15.596  1.00 88.72      B
ATOM   7687  CA  CYS B 451     -16.484   7.152 -16.834  1.00 91.25      B
ATOM   7688  CB  CYS B 451     -16.853   8.045 -18.020  1.00 91.85      B
ATOM   7689  SG  CYS B 451     -16.054   7.538 -19.568  1.00 94.32      B
ATOM   7690  C   CYS B 451     -14.966   7.011 -16.762  1.00 92.55      B
ATOM   7691  O   CYS B 451     -14.265   7.937 -16.357  1.00 92.79      B
ATOM   7692  N   TYR B 452     -14.469   5.844 -17.157  1.00 94.54      B
ATOM   7693  CA  TYR B 452     -13.038   5.562 -17.149  1.00 96.73      B
ATOM   7694  CB  TYR B 452     -12.732   4.409 -16.183  1.00 96.39      B
ATOM   7695  CG  TYR B 452     -12.915   4.768 -14.725  1.00 96.43      B
ATOM   7696  CD1 TYR B 452     -12.029   5.635 -14.081  1.00 97.26      B
ATOM   7697  CE1 TYR B 452     -12.212   5.995 -12.744  1.00 97.11      B
ATOM   7698  CD2 TYR B 452     -13.991   4.267 -13.995  1.00 96.63      B
ATOM   7699  CE2 TYR B 452     -14.186   4.621 -12.660  1.00 96.94      B
ATOM   7700  CZ  TYR B 452     -13.295   5.485 -12.042  1.00 96.99      B
ATOM   7701  OH  TYR B 452     -13.498   5.849 -10.731  1.00 95.77      B
ATOM   7702  C   TYR B 452     -12.562   5.209 -18.557  1.00 98.14      B
ATOM   7703  O   TYR B 452     -12.924   5.878 -19.525  1.00 98.89      B
ATOM   7704  N   SER B 453     -11.753   4.157 -18.657  1.00 99.52      B
ATOM   7705  CA  SER B 453     -11.204   3.684 -19.930  1.00100.89      B
ATOM   7706  CB  SER B 453     -10.675   4.859 -20.765  1.00101.59      B
ATOM   7707  OG  SER B 453     -10.414   4.462 -22.102  1.00102.06      B
ATOM   7708  C   SER B 453     -10.062   2.723 -19.600  1.00100.93      B
ATOM   7709  O   SER B 453      -8.981   3.148 -19.188  1.00100.33      B
ATOM   7710  N   ILE B 454     -10.303   1.431 -19.792  1.00101.12      B
ATOM   7711  CA  ILE B 454      -9.307   0.421 -19.462  1.00101.72      B
ATOM   7712  CB  ILE B 454      -9.874  -0.526 -18.369  1.00101.62      B
ATOM   7713  CG2 ILE B 454      -8.782  -1.445 -17.833  1.00101.36      B
ATOM   7714  CG1 ILE B 454     -10.450   0.315 -17.222  1.00102.07      B
ATOM   7715  CD1 ILE B 454     -11.130  -0.483 -16.126  1.00101.77      B
ATOM   7716  C   ILE B 454      -8.815  -0.409 -20.651  1.00102.09      B
ATOM   7717  O   ILE B 454      -9.372  -0.348 -21.748  1.00101.83      B
ATOM   7718  N   GLU B 455      -7.745  -1.165 -20.416  1.00102.80      B
ATOM   7719  CA  GLU B 455      -7.156  -2.044 -21.421  1.00103.61      B
ATOM   7720  CB  GLU B 455      -5.628  -1.998 -21.383  1.00103.97      B
ATOM   7721  CG  GLU B 455      -4.989  -0.660 -21.650  1.00103.67      B
ATOM   7722  CD  GLU B 455      -3.511  -0.811 -21.939  1.00103.37      B
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ATOM   7723  OE1 GLU B 455      -2.828  -1.527 -21.174  1.00102.92      B
ATOM   7724  OE2 GLU B 455      -3.037  -0.219 -22.931  1.00102.99      B
ATOM   7725  C   GLU B 455      -7.575  -3.473 -21.098  1.00103.97      B
ATOM   7726  O   GLU B 455      -7.645  -3.861 -19.929  1.00104.63      B
ATOM   7727  N   PRO B 456      -7.835  -4.285 -22.130  1.00103.49      B
ATOM   7728  CD  PRO B 456      -7.822  -3.974 -23.570  1.00103.71      B
ATOM   7729  CA  PRO B 456      -8.241  -5.672 -21.894  1.00102.35      B
ATOM   7730  CB  PRO B 456      -8.375  -6.234 -23.307  1.00103.04      B
ATOM   7731  CG  PRO B 456      -8.751  -5.024 -24.121  1.00103.61      B
ATOM   7732  C   PRO B 456      -7.199  -6.430 -21.075  1.00101.43      B
ATOM   7733  O   PRO B 456      -7.523  -7.111 -20.103  1.00101.40      B
ATOM   7734  N   LEU B 457      -5.941  -6.286 -21.478  1.00100.22      B
ATOM   7735  CA  LEU B 457      -4.825  -6.964 -20.830  1.00 98.55      B
ATOM   7736  CB  LEU B 457      -3.506  -6.499 -21.453  1.00 98.81      B
ATOM   7737  CG  LEU B 457      -3.404  -6.569 -22.979  1.00 98.89      B
ATOM   7738  CD1 LEU B 457      -2.074  -5.980 -23.430  1.00 98.30      B
ATOM   7739  CD2 LEU B 457      -3.549  -8.012 -23.440  1.00 98.16      B
ATOM   7740  C   LEU B 457      -4.759  -6.762 -19.325  1.00 97.44      B
ATOM   7741  O   LEU B 457      -4.252  -7.620 -18.604  1.00 96.57      B
ATOM   7742  N   ASP B 458      -5.272  -5.634 -18.848  1.00 96.36      B
ATOM   7743  CA  ASP B 458      -5.225  -5.338 -17.420  1.00 95.94      B
ATOM   7744  CB  ASP B 458      -5.413  -3.835 -17.200  1.00 95.09      B
ATOM   7745  CG  ASP B 458      -4.233  -3.026 -17.695  1.00 94.14      B
ATOM   7746  OD1 ASP B 458      -3.116  -3.242 -17.181  1.00 92.54      B
ATOM   7747  OD2 ASP B 458      -4.420  -2.179 -18.595  1.00 93.49      B
ATOM   7748  C   ASP B 458      -6.213  -6.115 -16.545  1.00 95.60      B
ATOM   7749  O   ASP B 458      -5.979  -6.292 -15.345  1.00 95.42      B
ATOM   7750  N   LEU B 459      -7.303  -6.586 -17.143  1.00 94.50      B
ATOM   7751  CA  LEU B 459      -8.330  -7.321 -16.407  1.00 93.47      B
ATOM   7752  CB  LEU B 459      -9.252  -8.051 -17.386  1.00 93.29      B
ATOM   7753  CG  LEU B 459     -10.126  -7.168 -18.278  1.00 93.20      B
ATOM   7754  CD1 LEU B 459     -10.890  -8.036 -19.261  1.00 92.93      B
ATOM   7755  CD2 LEU B 459     -11.088  -6.358 -17.420  1.00 92.95      B
ATOM   7756  C   LEU B 459      -7.828  -8.305 -15.347  1.00 93.01      B
ATOM   7757  O   LEU B 459      -8.230  -8.229 -14.185  1.00 92.77      B
ATOM   7758  N   PRO B 460      -6.948  -9.245 -15.730  1.00 92.52      B
ATOM   7759  CD  PRO B 460      -6.349  -9.466 -17.060  1.00 91.93      B
ATOM   7760  CA  PRO B 460      -6.434 -10.220 -14.761  1.00 91.71      B
ATOM   7761  CB  PRO B 460      -5.276 -10.871 -15.514  1.00 91.59      B
ATOM   7762  CG  PRO B 460      -5.772 -10.863 -16.925  1.00 91.82      B
ATOM   7763  C   PRO B 460      -5.996  -9.618 -13.422  1.00 91.32      B
ATOM   7764  O   PRO B 460      -6.369 -10.119 -12.360  1.00 90.66      B
ATOM   7765  N   GLN B 461      -5.210  -8.545 -13.475  1.00 90.89      B
ATOM   7766  CA  GLN B 461      -4.719  -7.899 -12.260  1.00 90.16      B
ATOM   7767  CB  GLN B 461      -3.615  -6.886 -12.595  1.00 90.92      B
ATOM   7768  CG  GLN B 461      -2.527  -7.398 -13.536  1.00 91.12      B
ATOM   7769  CD  GLN B 461      -2.836  -7.115 -15.000  1.00 92.02      B
ATOM   7770  OE1 GLN B 461      -2.952  -5.958 -15.413  1.00 91.70      B
ATOM   7771  NE2 GLN B 461      -2.971  -8.173 -15.792  1.00 92.34      B
ATOM   7772  C   GLN B 461      -5.842  -7.187 -11.509  1.00 89.36      B
ATOM   7773  O   GLN B 461      -6.075  -7.446 -10.324  1.00 88.88      B
ATOM   7774  N   ILE B 462      -6.528  -6.290 -12.214  1.00 88.39      B
ATOM   7775  CA  ILE B 462      -7.633  -5.512 -11.650  1.00 86.97      B
ATOM   7776  CB  ILE B 462      -8.407  -4.765 -12.758  1.00 86.44      B
ATOM   7777  CG2 ILE B 462      -9.543  -3.962 -12.141  1.00 86.36      B
ATOM   7778  CG1 ILE B 462      -7.453  -3.859 -13.542  1.00 85.91      B
ATOM   7779  CD1 ILE B 462      -8.115  -3.101 -14.675  1.00 85.30      B
ATOM   7780  C   ILE B 462      -8.627  -6.374 -10.879  1.00 85.83      B
ATOM   7781  O   ILE B 462      -8.973  -6.076  -9.733  1.00 85.08      B
ATOM   7782  N   ILE B 463      -9.084  -7.440 -11.526  1.00 84.53      B
ATOM   7783  CA  ILE B 463     -10.035  -8.356 -10.925  1.00 83.35      B
ATOM   7784  CB  ILE B 463     -10.311  -9.550 -11.861  1.00 81.85      B
ATOM   7785  CG2 ILE B 463     -11.156 -10.592 -11.146  1.00 81.19      B
ATOM   7786  CG1 ILE B 463     -11.010  -9.061 -13.132  1.00 80.09      B
ATOM   7787  CD1 ILE B 463     -11.314 -10.157 -14.125  1.00 77.96      B
ATOM   7788  C   ILE B 463      -9.535  -8.879  -9.585  1.00 84.07      B
ATOM   7789  O   ILE B 463     -10.330  -9.126  -8.680  1.00 84.16      B
ATOM   7790  N   GLU B 464      -8.222  -9.039  -9.451  1.00 85.19      B
ATOM   7791  CA  GLU B 464      -7.665  -9.548  -8.205  1.00 86.83      B
ATOM   7792  CB  GLU B 464      -6.229 -10.034  -8.404  1.00 87.75      B
ATOM   7793  CG  GLU B 464      -5.586 -10.525  -7.115  1.00 89.61      B
ATOM   7794  CD  GLU B 464      -4.144 -10.941  -7.298  1.00 91.25      B
ATOM   7795  OE1 GLU B 464      -3.904 -12.012  -7.893  1.00 91.53      B
ATOM   7796  OE2 GLU B 464      -3.247 -10.191  -6.853  1.00 93.21      B
ATOM   7797  C   GLU B 464      -7.699  -8.526  -7.077  1.00 87.30      B
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ATOM	7798	O	GLU	B	464	-7.960	-8.875	-5.930	1.00	86.64	B
ATOM	7799	N	ARG	B	465	-7.431	-7.264	-7.381	1.00	88.16	B
ATOM	7800	CA	ARG	B	465	-7.460	-6.269	-6.322	1.00	89.08	B
ATOM	7801	CB	ARG	B	465	-6.755	-4.984	-6.761	1.00	90.95	B
ATOM	7802	CG	ARG	B	465	-6.601	-3.967	-5.639	1.00	93.30	B
ATOM	7803	CD	ARG	B	465	-5.676	-2.836	-6.042	1.00	95.37	B
ATOM	7804	NE	ARG	B	465	-5.679	-1.750	-5.066	1.00	97.41	B
ATOM	7805	CZ	ARG	B	465	-4.912	-0.668	-5.158	1.00	98.73	B
ATOM	7806	NH1	ARG	B	465	-4.083	-0.538	-6.182	1.00	99.04	B
ATOM	7807	NH2	ARG	B	465	-4.974	0.285	-4.235	1.00	98.85	B
ATOM	7808	C	ARG	B	465	-8.905	-5.974	-5.936	1.00	88.45	B
ATOM	7809	O	ARG	B	465	-9.196	-5.664	-4.778	1.00	88.71	B
ATOM	7810	N	LEU	B	466	-9.808	-6.091	-6.908	1.00	87.10	B
ATOM	7811	CA	LEU	B	466	-11.231	-5.836	-6.682	1.00	85.45	B
ATOM	7812	CB	LEU	B	466	-11.937	-5.508	-7.998	1.00	85.51	B
ATOM	7813	CG	LEU	B	466	-11.444	-4.322	-8.820	1.00	86.53	B
ATOM	7814	CD1	LEU	B	466	-12.401	-4.100	-9.981	1.00	85.91	B
ATOM	7815	CD2	LEU	B	466	-11.365	-3.078	-7.946	1.00	87.26	B
ATOM	7816	C	LEU	B	466	-11.951	-7.015	-6.045	1.00	83.93	B
ATOM	7817	O	LEU	B	466	-12.384	-6.941	-4.899	1.00	84.79	B
ATOM	7818	N	HIS	B	467	-12.082	-8.094	-6.813	1.00	81.35	B
ATOM	7819	CA	HIS	B	467	-12.762	-9.308	-6.372	1.00	78.89	B
ATOM	7820	CB	HIS	B	467	-13.292	-10.047	-7.588	1.00	73.81	B
ATOM	7821	CG	HIS	B	467	-14.114	-9.187	-8.492	1.00	68.83	B
ATOM	7822	CD2	HIS	B	467	-13.830	-8.630	-9.692	1.00	66.49	B
ATOM	7823	ND1	HIS	B	467	-15.399	-8.800	-8.183	1.00	67.24	B
ATOM	7824	CE1	HIS	B	467	-15.874	-8.046	-9.158	1.00	66.13	B
ATOM	7825	NE2	HIS	B	467	-14.942	-7.927	-10.085	1.00	65.11	B
ATOM	7826	C	HIS	B	467	-11.840	-10.218	-5.568	1.00	80.41	B
ATOM	7827	O	HIS	B	467	-12.295	-11.119	-4.854	1.00	79.96	B
ATOM	7828	N	GLY	B	468	-10.539	-9.986	-5.712	1.00	81.75	B
ATOM	7829	CA	GLY	B	468	-9.547	-10.742	-4.971	1.00	82.79	B
ATOM	7830	C	GLY	B	468	-9.389	-12.237	-5.152	1.00	83.47	B
ATOM	7831	O	GLY	B	468	-10.315	-13.013	-4.929	1.00	84.23	B
ATOM	7832	N	LEU	B	469	-8.186	-12.626	-5.559	1.00	84.16	B
ATOM	7833	CA	LEU	B	469	-7.805	-14.023	-5.732	1.00	84.38	B
ATOM	7834	CB	LEU	B	469	-7.321	-14.570	-4.370	1.00	86.37	B
ATOM	7835	CG	LEU	B	469	-7.376	-13.653	-3.123	1.00	87.45	B
ATOM	7836	CD1	LEU	B	469	-7.039	-14.455	-1.861	1.00	86.89	B
ATOM	7837	CD2	LEU	B	469	-6.403	-12.480	-3.280	1.00	87.07	B
ATOM	7838	C	LEU	B	469	-8.842	-14.986	-6.343	1.00	83.22	B
ATOM	7839	O	LEU	B	469	-8.843	-15.227	-7.555	1.00	82.34	B
ATOM	7840	N	SER	B	470	-9.709	-15.531	-5.489	1.00	81.75	B
ATOM	7841	CA	SER	B	470	-10.744	-16.501	-5.867	1.00	80.56	B
ATOM	7842	CB	SER	B	470	-11.683	-16.744	-4.680	1.00	80.17	B
ATOM	7843	OG	SER	B	470	-12.503	-15.615	-4.428	1.00	77.77	B
ATOM	7844	C	SER	B	470	-11.604	-16.243	-7.105	1.00	80.35	B
ATOM	7845	O	SER	B	470	-12.302	-17.142	-7.564	1.00	80.38	B
ATOM	7846	N	ALA	B	471	-11.580	-15.033	-7.646	1.00	80.22	B
ATOM	7847	CA	ALA	B	471	-12.387	-14.736	-8.824	1.00	79.61	B
ATOM	7848	CB	ALA	B	471	-12.376	-13.238	-9.095	1.00	79.64	B
ATOM	7849	C	ALA	B	471	-11.892	-15.503	-10.056	1.00	80.31	B
ATOM	7850	O	ALA	B	471	-12.358	-15.275	-11.180	1.00	79.87	B
ATOM	7851	N	PHE	B	472	-10.948	-16.416	-9.839	1.00	80.07	B
ATOM	7852	CA	PHE	B	472	-10.392	-17.214	-10.928	1.00	79.58	B
ATOM	7853	CB	PHE	B	472	-8.917	-16.865	-11.146	1.00	79.72	B
ATOM	7854	CG	PHE	B	472	-8.665	-15.415	-11.442	1.00	79.36	B
ATOM	7855	CD1	PHE	B	472	-9.257	-14.798	-12.537	1.00	79.70	B
ATOM	7856	CD2	PHE	B	472	-7.799	-14.675	-10.646	1.00	79.91	B
ATOM	7857	CE1	PHE	B	472	-8.981	-13.463	-12.841	1.00	79.55	B
ATOM	7858	CE2	PHE	B	472	-7.517	-13.341	-10.942	1.00	79.45	B
ATOM	7859	CZ	PHE	B	472	-8.110	-12.736	-12.041	1.00	79.10	B
ATOM	7860	C	PHE	B	472	-10.500	-18.706	-10.623	1.00	78.56	B
ATOM	7861	O	PHE	B	472	-10.395	-19.543	-11.520	1.00	78.36	B
ATOM	7862	N	THR	B	473	-10.708	-19.028	-9.352	1.00	77.22	B
ATOM	7863	CA	THR	B	473	-10.805	-20.413	-8.922	1.00	75.89	B
ATOM	7864	CB	THR	B	473	-9.714	-20.735	-7.871	1.00	76.42	B
ATOM	7865	OG1	THR	B	473	-9.975	-20.015	-6.656	1.00	75.87	B
ATOM	7866	CG2	THR	B	473	-8.350	-20.339	-8.398	1.00	76.17	B
ATOM	7867	C	THR	B	473	-12.164	-20.748	-8.324	1.00	74.74	B
ATOM	7868	O	THR	B	473	-12.264	-21.575	-7.420	1.00	74.72	B
ATOM	7869	N	LEU	B	474	-13.219	-20.114	-8.814	1.00	73.42	B
ATOM	7870	CA	LEU	B	474	-14.530	-20.410	-8.264	1.00	72.76	B
ATOM	7871	CB	LEU	B	474	-15.433	-19.178	-8.293	1.00	71.50	B
ATOM	7872	CG	LEU	B	474	-15.051	-18.074	-7.307	1.00	71.54	B

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ATOM   7873  CD1 LEU B 474     -16.154 -17.025  -7.279  1.00 71.46      B
ATOM   7874  CD2 LEU B 474     -14.838 -18.665  -5.917  1.00 70.38      B
ATOM   7875  C   LEU B 474     -15.198 -21.550  -8.994  1.00 72.73      B
ATOM   7876  O   LEU B 474     -15.185 -21.610 -10.223  1.00 72.20      B
ATOM   7877  N   HIS B 475     -15.769 -22.463  -8.217  1.00 73.33      B
ATOM   7878  CA  HIS B 475     -16.469 -23.619  -8.760  1.00 74.01      B
ATOM   7879  CB  HIS B 475     -15.532 -24.814  -8.890  1.00 73.03      B
ATOM   7880  CG  HIS B 475     -15.144 -25.411  -7.577  1.00 72.65      B
ATOM   7881  CD2 HIS B 475     -15.483 -26.585  -6.996  1.00 73.11      B
ATOM   7882  ND1 HIS B 475     -14.336 -24.756  -6.673  1.00 73.86      B
ATOM   7883  CE1 HIS B 475     -14.194 -25.501  -5.592  1.00 73.88      B
ATOM   7884  NE2 HIS B 475     -14.881 -26.616  -5.761  1.00 73.77      B
ATOM   7885  C   HIS B 475     -17.587 -23.989  -7.802  1.00 74.94      B
ATOM   7886  O   HIS B 475     -17.718 -23.397  -6.724  1.00 74.98      B
ATOM   7887  N   SER B 476     -18.379 -24.982  -8.197  1.00 75.48      B
ATOM   7888  CA  SER B 476     -19.489 -25.455  -7.382  1.00 75.57      B
ATOM   7889  CB  SER B 476     -18.965 -25.957  -6.031  1.00 77.23      B
ATOM   7890  OG  SER B 476     -20.026 -26.377  -5.188  1.00 80.25      B
ATOM   7891  C   SER B 476     -20.508 -24.337  -7.179  1.00 74.76      B
ATOM   7892  O   SER B 476     -21.016 -24.128  -6.071  1.00 74.02      B
ATOM   7893  N   TYR B 477     -20.798 -23.617  -8.259  1.00 73.99      B
ATOM   7894  CA  TYR B 477     -21.758 -22.523  -8.205  1.00 73.42      B
ATOM   7895  CB  TYR B 477     -21.915 -21.858  -9.578  1.00 72.39      B
ATOM   7896  CG  TYR B 477     -20.792 -20.916  -9.972  1.00 71.96      B
ATOM   7897  CD1 TYR B 477     -19.616 -21.395 -10.548  1.00 71.31      B
ATOM   7898  CE1 TYR B 477     -18.594 -20.519 -10.934  1.00 70.06      B
ATOM   7899  CD2 TYR B 477     -20.917 -19.534  -9.786  1.00 71.89      B
ATOM   7900  CE2 TYR B 477     -19.902 -18.654 -10.166  1.00 70.18      B
ATOM   7901  CZ  TYR B 477     -18.749 -19.154 -10.741  1.00 69.33      B
ATOM   7902  OH  TYR B 477     -17.762 -18.292 -11.148  1.00 69.29      B
ATOM   7903  C   TYR B 477     -23.118 -23.025  -7.739  1.00 73.00      B
ATOM   7904  O   TYR B 477     -23.472 -24.180  -7.959  1.00 73.01      B
ATOM   7905  N   SER B 478     -23.873 -22.145  -7.094  1.00 72.65      B
ATOM   7906  CA  SER B 478     -25.201 -22.481  -6.599  1.00 72.38      B
ATOM   7907  CB  SER B 478     -25.900 -21.213  -6.099  1.00 72.00      B
ATOM   7908  OG  SER B 478     -27.295 -21.417  -5.955  1.00 69.75      B
ATOM   7909  C   SER B 478     -26.073 -23.134  -7.668  1.00 72.95      B
ATOM   7910  O   SER B 478     -25.925 -22.857  -8.860  1.00 72.67      B
ATOM   7911  N   PRO B 479     -26.984 -24.033  -7.254  1.00 72.91      B
ATOM   7912  CD  PRO B 479     -27.082 -24.711  -5.951  1.00 73.50      B
ATOM   7913  CA  PRO B 479     -27.857 -24.681  -8.235  1.00 72.32      B
ATOM   7914  CB  PRO B 479     -28.647 -25.677  -7.390  1.00 72.02      B
ATOM   7915  CG  PRO B 479     -27.668 -26.057  -6.341  1.00 73.29      B
ATOM   7916  C   PRO B 479     -28.748 -23.605  -8.843  1.00 71.27      B
ATOM   7917  O   PRO B 479     -28.786 -23.431 -10.063  1.00 71.96      B
ATOM   7918  N   GLY B 480     -29.446 -22.873  -7.978  1.00 69.70      B
ATOM   7919  CA  GLY B 480     -30.322 -21.813  -8.446  1.00 69.00      B
ATOM   7920  C   GLY B 480     -29.607 -20.863  -9.388  1.00 68.19      B
ATOM   7921  O   GLY B 480     -30.151 -20.461 -10.421  1.00 67.47      B
ATOM   7922  N   GLU B 481     -28.374 -20.514  -9.030  1.00 67.55      B
ATOM   7923  CA  GLU B 481     -27.562 -19.610  -9.830  1.00 67.53      B
ATOM   7924  CB  GLU B 481     -26.261 -19.283  -9.090  1.00 66.90      B
ATOM   7925  CG  GLU B 481     -25.414 -18.200  -9.755  1.00 65.50      B
ATOM   7926  CD  GLU B 481     -26.196 -16.925 -10.021  1.00 64.93      B
ATOM   7927  OE1 GLU B 481     -26.889 -16.438  -9.096  1.00 64.06      B
ATOM   7928  OE2 GLU B 481     -26.109 -16.407 -11.155  1.00 64.41      B
ATOM   7929  C   GLU B 481     -27.252 -20.230 -11.189  1.00 68.36      B
ATOM   7930  O   GLU B 481     -27.503 -19.613 -12.232  1.00 68.65      B
ATOM   7931  N   ILE B 482     -26.709 -21.448 -11.170  1.00 68.26      B
ATOM   7932  CA  ILE B 482     -26.366 -22.168 -12.397  1.00 67.51      B
ATOM   7933  CB  ILE B 482     -25.894 -23.609 -12.102  1.00 66.45      B
ATOM   7934  CG2 ILE B 482     -25.658 -24.345 -13.404  1.00 65.37      B
ATOM   7935  CG1 ILE B 482     -24.617 -23.594 -11.262  1.00 65.57      B
ATOM   7936  CD1 ILE B 482     -24.141 -24.977 -10.846  1.00 63.74      B
ATOM   7937  C   ILE B 482     -27.595 -22.256 -13.295  1.00 67.84      B
ATOM   7938  O   ILE B 482     -27.498 -22.189 -14.522  1.00 67.40      B
ATOM   7939  N   ASN B 483     -28.756 -22.403 -12.666  1.00 68.34      B
ATOM   7940  CA  ASN B 483     -30.008 -22.505 -13.394  1.00 68.71      B
ATOM   7941  CB  ASN B 483     -31.119 -22.967 -12.458  1.00 71.66      B
ATOM   7942  CG  ASN B 483     -30.934 -24.405 -12.013  1.00 75.35      B
ATOM   7943  OD1 ASN B 483     -30.798 -25.312 -12.843  1.00 76.73      B
ATOM   7944  ND2 ASN B 483     -30.929 -24.625 -10.700  1.00 76.84      B
ATOM   7945  C   ASN B 483     -30.410 -21.210 -14.068  1.00 67.08      B
ATOM   7946  O   ASN B 483     -30.673 -21.194 -15.266  1.00 67.13      B
ATOM   7947  N   ARG B 484     -30.457 -20.125 -13.303  1.00 65.92      B
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ATOM   7948  CA  ARG B 484     -30.834 -18.838 -13.866  1.00 64.77      B
ATOM   7949  CB  ARG B 484     -30.679 -17.728 -12.826  1.00 64.31      B
ATOM   7950  CG  ARG B 484     -31.011 -16.352 -13.381  1.00 64.57      B
ATOM   7951  CD  ARG B 484     -31.036 -15.290 -12.306  1.00 64.57      B
ATOM   7952  NE  ARG B 484     -29.793 -15.252 -11.549  1.00 65.45      B
ATOM   7953  CZ  ARG B 484     -29.520 -14.339 -10.627  1.00 66.17      B
ATOM   7954  NH1 ARG B 484     -30.405 -13.390 -10.355  1.00 65.59      B
ATOM   7955  NH2 ARG B 484     -28.369 -14.379  -9.971  1.00 67.27      B
ATOM   7956  C   ARG B 484     -30.001 -18.506 -15.101  1.00 64.29      B
ATOM   7957  O   ARG B 484     -30.490 -17.873 -16.039  1.00 62.98      B
ATOM   7958  N   VAL B 485     -28.743 -18.938 -15.097  1.00 64.51      B
ATOM   7959  CA  VAL B 485     -27.850 -18.686 -16.223  1.00 65.18      B
ATOM   7960  CB  VAL B 485     -26.398 -19.061 -15.881  1.00 64.00      B
ATOM   7961  CG1 VAL B 485     -25.472 -18.614 -17.003  1.00 63.14      B
ATOM   7962  CG2 VAL B 485     -25.996 -18.430 -14.562  1.00 63.10      B
ATOM   7963  C   VAL B 485     -28.285 -19.500 -17.440  1.00 66.92      B
ATOM   7964  O   VAL B 485     -28.561 -18.946 -18.505  1.00 66.67      B
ATOM   7965  N   ALA B 486     -28.345 -20.819 -17.268  1.00 68.91      B
ATOM   7966  CA  ALA B 486     -28.747 -21.730 -18.338  1.00 70.02      B
ATOM   7967  CB  ALA B 486     -28.867 -23.148 -17.791  1.00 69.56      B
ATOM   7968  C   ALA B 486     -30.065 -21.312 -18.995  1.00 70.66      B
ATOM   7969  O   ALA B 486     -30.156 -21.203 -20.224  1.00 70.35      B
ATOM   7970  N   SER B 487     -31.087 -21.080 -18.178  1.00 70.56      B
ATOM   7971  CA  SER B 487     -32.380 -20.686 -18.710  1.00 71.97      B
ATOM   7972  CB  SER B 487     -33.401 -20.543 -17.577  1.00 72.41      B
ATOM   7973  OG  SER B 487     -32.882 -19.784 -16.502  1.00 74.49      B
ATOM   7974  C   SER B 487     -32.287 -19.396 -19.515  1.00 72.76      B
ATOM   7975  O   SER B 487     -32.965 -19.253 -20.534  1.00 72.53      B
ATOM   7976  N   CYS B 488     -31.446 -18.463 -19.067  1.00 73.87      B
ATOM   7977  CA  CYS B 488     -31.280 -17.194 -19.773  1.00 73.63      B
ATOM   7978  CB  CYS B 488     -30.414 -16.225 -18.968  1.00 74.72      B
ATOM   7979  SG  CYS B 488     -30.089 -14.643 -19.822  1.00 77.83      B
ATOM   7980  C   CYS B 488     -30.635 -17.444 -21.126  1.00 73.01      B
ATOM   7981  O   CYS B 488     -31.092 -16.921 -22.142  1.00 72.49      B
ATOM   7982  N   LEU B 489     -29.570 -18.241 -21.135  1.00 73.00      B
ATOM   7983  CA  LEU B 489     -28.885 -18.569 -22.380  1.00 73.88      B
ATOM   7984  CB  LEU B 489     -27.746 -19.562 -22.130  1.00 73.37      B
ATOM   7985  CG  LEU B 489     -26.479 -19.000 -21.480  1.00 72.81      B
ATOM   7986  CD1 LEU B 489     -25.500 -20.125 -21.218  1.00 72.58      B
ATOM   7987  CD2 LEU B 489     -25.850 -17.956 -22.393  1.00 72.55      B
ATOM   7988  C   LEU B 489     -29.908 -19.173 -23.334  1.00 74.86      B
ATOM   7989  O   LEU B 489     -29.860 -18.940 -24.547  1.00 74.75      B
ATOM   7990  N   ARG B 490     -30.838 -19.946 -22.777  1.00 75.17      B
ATOM   7991  CA  ARG B 490     -31.893 -20.549 -23.578  1.00 75.12      B
ATOM   7992  CB  ARG B 490     -32.718 -21.533 -22.742  1.00 75.56      B
ATOM   7993  CG  ARG B 490     -32.122 -22.933 -22.653  1.00 76.58      B
ATOM   7994  CD  ARG B 490     -33.117 -23.922 -22.044  1.00 76.42      B
ATOM   7995  NE  ARG B 490     -33.058 -24.011 -20.585  1.00 74.98      B
ATOM   7996  CZ  ARG B 490     -32.006 -24.465 -19.905  1.00 75.43      B
ATOM   7997  NH1 ARG B 490     -30.912 -24.864 -20.548  1.00 75.09      B
ATOM   7998  NH2 ARG B 490     -32.056 -24.550 -18.583  1.00 74.86      B
ATOM   7999  C   ARG B 490     -32.804 -19.454 -24.124  1.00 74.80      B
ATOM   8000  O   ARG B 490     -33.102 -19.431 -25.315  1.00 75.26      B
ATOM   8001  N   LYS B 491     -33.232 -18.539 -23.255  1.00 74.70      B
ATOM   8002  CA  LYS B 491     -34.116 -17.451 -23.667  1.00 74.24      B
ATOM   8003  CB  LYS B 491     -34.487 -16.557 -22.478  1.00 74.59      B
ATOM   8004  CG  LYS B 491     -35.309 -15.327 -22.889  1.00 74.82      B
ATOM   8005  CD  LYS B 491     -35.834 -14.520 -21.699  1.00 75.22      B
ATOM   8006  CE  LYS B 491     -34.716 -13.849 -20.916  1.00 74.96      B
ATOM   8007  NZ  LYS B 491     -35.249 -13.041 -19.778  1.00 74.30      B
ATOM   8008  C   LYS B 491     -33.522 -16.579 -24.763  1.00 74.21      B
ATOM   8009  O   LYS B 491     -34.191 -16.287 -25.757  1.00 74.28      B
ATOM   8010  N   LEU B 492     -32.275 -16.153 -24.580  1.00 73.51      B
ATOM   8011  CA  LEU B 492     -31.619 -15.300 -25.569  1.00 72.92      B
ATOM   8012  CB  LEU B 492     -30.470 -14.519 -24.928  1.00 71.01      B
ATOM   8013  CG  LEU B 492     -30.824 -13.154 -24.336  1.00 70.08      B
ATOM   8014  CD1 LEU B 492     -32.068 -13.244 -23.472  1.00 70.57      B
ATOM   8015  CD2 LEU B 492     -29.656 -12.661 -23.520  1.00 70.15      B
ATOM   8016  C   LEU B 492     -31.098 -16.084 -26.760  1.00 73.22      B
ATOM   8017  O   LEU B 492     -30.717 -15.502 -27.776  1.00 74.00      B
ATOM   8018  N   GLY B 493     -31.090 -17.406 -26.643  1.00 72.88      B
ATOM   8019  CA  GLY B 493     -30.602 -18.221 -27.738  1.00 72.96      B
ATOM   8020  C   GLY B 493     -29.092 -18.127 -27.861  1.00 73.33      B
ATOM   8021  O   GLY B 493     -28.564 -17.582 -28.830  1.00 73.38      B
ATOM   8022  N   VAL B 494     -28.395 -18.664 -26.867  1.00 72.78      B
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ATOM   8023  CA  VAL B 494     -26.941 -18.653 -26.846  1.00 71.27      B
ATOM   8024  CB  VAL B 494     -26.413 -17.644 -25.792  1.00 70.89      B
ATOM   8025  CG1 VAL B 494     -24.891 -17.603 -25.811  1.00 69.50      B
ATOM   8026  CG2 VAL B 494     -26.990 -16.266 -26.064  1.00 69.98      B
ATOM   8027  C   VAL B 494     -26.451 -20.053 -26.488  1.00 70.64      B
ATOM   8028  O   VAL B 494     -27.005 -20.706 -25.602  1.00 69.33      B
ATOM   8029  N   PRO B 495     -25.417 -20.541 -27.189  1.00 70.77      B
ATOM   8030  CD  PRO B 495     -24.698 -19.898 -28.308  1.00 70.63      B
ATOM   8031  CA  PRO B 495     -24.874 -21.875 -26.909  1.00 71.19      B
ATOM   8032  CB  PRO B 495     -23.520 -21.832 -27.602  1.00 70.60      B
ATOM   8033  CG  PRO B 495     -23.828 -21.030 -28.844  1.00 70.94      B
ATOM   8034  C   PRO B 495     -24.761 -22.140 -25.399  1.00 71.64      B
ATOM   8035  O   PRO B 495     -24.247 -21.304 -24.651  1.00 71.90      B
ATOM   8036  N   PRO B 496     -25.242 -23.307 -24.933  1.00 71.33      B
ATOM   8037  CD  PRO B 496     -25.587 -24.515 -25.698  1.00 70.77      B
ATOM   8038  CA  PRO B 496     -25.166 -23.612 -23.503  1.00 71.95      B
ATOM   8039  CB  PRO B 496     -25.699 -25.038 -23.423  1.00 71.40      B
ATOM   8040  CG  PRO B 496     -25.249 -25.619 -24.715  1.00 71.67      B
ATOM   8041  C   PRO B 496     -23.743 -23.488 -22.987  1.00 72.58      B
ATOM   8042  O   PRO B 496     -22.785 -23.521 -23.760  1.00 72.79      B
ATOM   8043  N   LEU B 497     -23.613 -23.345 -21.676  1.00 73.44      B
ATOM   8044  CA  LEU B 497     -22.310 -23.191 -21.048  1.00 74.61      B
ATOM   8045  CB  LEU B 497     -22.435 -23.463 -19.547  1.00 73.00      B
ATOM   8046  CG  LEU B 497     -23.459 -22.570 -18.835  1.00 71.36      B
ATOM   8047  CD1 LEU B 497     -23.579 -22.977 -17.379  1.00 70.97      B
ATOM   8048  CD2 LEU B 497     -23.041 -21.112 -18.954  1.00 70.45      B
ATOM   8049  C   LEU B 497     -21.253 -24.094 -21.674  1.00 76.34      B
ATOM   8050  O   LEU B 497     -20.082 -23.723 -21.758  1.00 75.68      B
ATOM   8051  N   ARG B 498     -21.679 -25.268 -22.132  1.00 79.57      B
ATOM   8052  CA  ARG B 498     -20.784 -26.241 -22.753  1.00 82.14      B
ATOM   8053  CB  ARG B 498     -21.568 -27.496 -23.136  1.00 84.67      B
ATOM   8054  CG  ARG B 498     -22.159 -28.236 -21.948  1.00 89.32      B
ATOM   8055  CD  ARG B 498     -21.070 -28.881 -21.095  1.00 92.30      B
ATOM   8056  NE  ARG B 498     -21.623 -29.555 -19.923  1.00 94.50      B
ATOM   8057  CZ  ARG B 498     -20.920 -30.334 -19.108  1.00 95.80      B
ATOM   8058  NH1 ARG B 498     -19.626 -30.545 -19.338  1.00 96.10      B
ATOM   8059  NH2 ARG B 498     -21.512 -30.895 -18.061  1.00 96.02      B
ATOM   8060  C   ARG B 498     -20.057 -25.703 -23.983  1.00 82.47      B
ATOM   8061  O   ARG B 498     -18.826 -25.678 -24.020  1.00 83.33      B
ATOM   8062  N   THR B 499     -20.815 -25.281 -24.990  1.00 82.15      B
ATOM   8063  CA  THR B 499     -20.220 -24.754 -26.212  1.00 82.80      B
ATOM   8064  CB  THR B 499     -21.287 -24.135 -27.137  1.00 84.30      B
ATOM   8065  OG1 THR B 499     -22.242 -25.140 -27.502  1.00 85.69      B
ATOM   8066  CG2 THR B 499     -20.640 -23.570 -28.408  1.00 84.87      B
ATOM   8067  C   THR B 499     -19.184 -23.691 -25.876  1.00 82.49      B
ATOM   8068  O   THR B 499     -18.182 -23.544 -26.573  1.00 82.67      B
ATOM   8069  N   TRP B 500     -19.436 -22.948 -24.804  1.00 82.14      B
ATOM   8070  CA  TRP B 500     -18.513 -21.907 -24.369  1.00 81.26      B
ATOM   8071  CB  TRP B 500     -19.181 -20.995 -23.336  1.00 78.17      B
ATOM   8072  CG  TRP B 500     -20.227 -20.111 -23.915  1.00 74.03      B
ATOM   8073  CD2 TRP B 500     -20.026 -19.070 -24.872  1.00 72.46      B
ATOM   8074  CE2 TRP B 500     -21.293 -18.517 -25.161  1.00 72.15      B
ATOM   8075  CE3 TRP B 500     -18.898 -18.558 -25.527  1.00 71.80      B
ATOM   8076  CD1 TRP B 500     -21.566 -20.144 -23.658  1.00 72.98      B
ATOM   8077  NE1 TRP B 500     -22.216 -19.188 -24.402  1.00 72.33      B
ATOM   8078  CZ2 TRP B 500     -21.465 -17.465 -26.072  1.00 72.05      B
ATOM   8079  CZ3 TRP B 500     -19.068 -17.514 -26.435  1.00 72.95      B
ATOM   8080  CH2 TRP B 500     -20.346 -16.982 -26.701  1.00 72.01      B
ATOM   8081  C   TRP B 500     -17.270 -22.549 -23.764  1.00 82.49      B
ATOM   8082  O   TRP B 500     -16.156 -22.056 -23.939  1.00 82.97      B
ATOM   8083  N   ARG B 501     -17.468 -23.649 -23.044  1.00 82.97      B
ATOM   8084  CA  ARG B 501     -16.359 -24.364 -22.424  1.00 84.35      B
ATOM   8085  CB  ARG B 501     -16.880 -25.548 -21.616  1.00 86.32      B
ATOM   8086  CG  ARG B 501     -15.788 -26.369 -20.966  1.00 89.56      B
ATOM   8087  CD  ARG B 501     -16.345 -27.551 -20.200  1.00 92.50      B
ATOM   8088  NE  ARG B 501     -15.256 -28.354 -19.656  1.00 96.10      B
ATOM   8089  CZ  ARG B 501     -14.359 -27.901 -18.783  1.00 97.87      B
ATOM   8090  NH1 ARG B 501     -14.427 -26.648 -18.351  1.00 99.31      B
ATOM   8091  NH2 ARG B 501     -13.387 -28.694 -18.349  1.00 98.43      B
ATOM   8092  C   ARG B 501     -15.388 -24.862 -23.495  1.00 84.07      B
ATOM   8093  O   ARG B 501     -14.182 -24.967 -23.257  1.00 82.93      B
ATOM   8094  N   HIS B 502     -15.917 -25.172 -24.674  1.00 84.94      B
ATOM   8095  CA  HIS B 502     -15.081 -25.632 -25.772  1.00 86.46      B
ATOM   8096  CB  HIS B 502     -15.953 -26.289 -26.858  1.00 88.93      B
ATOM   8097  CG  HIS B 502     -15.197 -27.202 -27.776  1.00 91.36      B
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ATOM   8098  CD2 HIS B 502     -14.813 -27.045 -29.066  1.00 91.71      B
ATOM   8099  ND1 HIS B 502     -14.729 -28.440 -27.384  1.00 91.82      B
ATOM   8100  CE1 HIS B 502     -14.090 -29.005 -28.393  1.00 92.92      B
ATOM   8101  NE2 HIS B 502     -14.126 -28.180 -29.424  1.00 93.14      B
ATOM   8102  C   HIS B 502     -14.354 -24.409 -26.326  1.00 84.18      B
ATOM   8103  O   HIS B 502     -13.132 -24.400 -26.428  1.00 86.19      B
ATOM   8104  N   ARG B 503     -15.121 -23.371 -26.650  1.00 83.67      B
ATOM   8105  CA  ARG B 503     -14.581 -22.120 -27.195  1.00 83.11      B
ATOM   8106  CB  ARG B 503     -15.713 -21.125 -27.478  1.00 83.04      B
ATOM   8107  CG  ARG B 503     -16.868 -21.722 -28.282  1.00 82.21      B
ATOM   8108  CD  ARG B 503     -17.727 -20.632 -28.938  1.00 80.31      B
ATOM   8109  NE  ARG B 503     -18.761 -21.183 -29.824  1.00 83.81      B
ATOM   8110  CZ  ARG B 503     -19.869 -20.524 -30.189  1.00 85.06      B
ATOM   8111  NH1 ARG B 503     -20.092 -19.269 -29.741  1.00 87.36      B
ATOM   8112  NH2 ARG B 503     -20.775 -21.129 -30.981  1.00 86.65      B
ATOM   8113  C   ARG B 503     -13.582 -21.473 -26.241  1.00 83.92      B
ATOM   8114  O   ARG B 503     -12.610 -20.841 -26.666  1.00 86.22      B
ATOM   8115  N   ALA B 504     -13.832 -21.646 -24.946  1.00 83.39      B
ATOM   8116  CA  ALA B 504     -12.976 -21.096 -23.906  1.00 83.64      B
ATOM   8117  CB  ALA B 504     -13.555 -21.414 -22.529  1.00 81.76      B
ATOM   8118  C   ALA B 504     -11.579 -21.680 -24.029  1.00 84.78      B
ATOM   8119  O   ALA B 504     -10.589 -20.986 -23.813  1.00 85.07      B
ATOM   8120  N   ARG B 505     -11.497 -22.956 -24.385  1.00 87.13      B
ATOM   8121  CA  ARG B 505     -10.204 -23.602 -24.524  1.00 89.56      B
ATOM   8122  CB  ARG B 505     -10.386 -25.114 -24.649  1.00 90.38      B
ATOM   8123  CG  ARG B 505     -11.285 -25.709 -23.572  1.00 92.69      B
ATOM   8124  CD  ARG B 505     -11.028 -27.197 -23.372  1.00 94.57      B
ATOM   8125  NE  ARG B 505      -9.663 -27.454 -22.915  1.00 95.83      B
ATOM   8126  CZ  ARG B 505      -9.208 -28.643 -22.530  1.00 96.18      B
ATOM   8127  NH1 ARG B 505     -10.010 -29.698 -22.542  1.00 96.91      B
ATOM   8128  NH2 ARG B 505      -7.950 -28.778 -22.130  1.00 96.36      B
ATOM   8129  C   ARG B 505      -9.437 -23.059 -25.723  1.00 90.36      B
ATOM   8130  O   ARG B 505      -8.235 -22.825 -25.636  1.00 89.82      B
ATOM   8131  N   SER B 506     -10.137 -22.863 -26.837  1.00 92.31      B
ATOM   8132  CA  SER B 506      -9.531 -22.333 -28.058  1.00 95.20      B
ATOM   8133  CB  SER B 506     -10.579 -22.273 -29.178  1.00 95.82      B
ATOM   8134  OG  SER B 506     -10.103 -21.557 -30.308  1.00 95.33      B
ATOM   8135  C   SER B 506      -8.971 -20.933 -27.797  1.00 96.86      B
ATOM   8136  O   SER B 506      -7.831 -20.623 -28.156  1.00 96.79      B
ATOM   8137  N   VAL B 507      -9.790 -20.090 -27.174  1.00 98.21      B
ATOM   8138  CA  VAL B 507      -9.387 -18.729 -26.848  1.00 98.94      B
ATOM   8139  CB  VAL B 507     -10.451 -18.028 -25.976  1.00 98.99      B
ATOM   8140  CG1 VAL B 507      -9.958 -16.652 -25.550  1.00 99.20      B
ATOM   8141  CG2 VAL B 507     -11.754 -17.911 -26.750  1.00 99.30      B
ATOM   8142  C   VAL B 507      -8.075 -18.773 -26.078  1.00 99.31      B
ATOM   8143  O   VAL B 507      -7.072 -18.201 -26.506  1.00 99.50      B
ATOM   8144  N   ARG B 508      -8.096 -19.466 -24.944  1.00 99.36      B
ATOM   8145  CA  ARG B 508      -6.926 -19.607 -24.088  1.00100.11      B
ATOM   8146  CB  ARG B 508      -7.139 -20.748 -23.099  1.00100.04      B
ATOM   8147  CG  ARG B 508      -5.946 -21.006 -22.206  1.00 99.64      B
ATOM   8148  CD  ARG B 508      -6.085 -22.329 -21.506  1.00 99.87      B
ATOM   8149  NE  ARG B 508      -5.710 -22.229 -20.103  1.00101.37      B
ATOM   8150  CZ  ARG B 508      -5.675 -23.265 -19.275  1.00102.69      B
ATOM   8151  NH1 ARG B 508      -5.990 -24.472 -19.724  1.00102.59      B
ATOM   8152  NH2 ARG B 508      -5.339 -23.094 -18.001  1.00103.01      B
ATOM   8153  C   ARG B 508      -5.652 -19.883 -24.876  1.00100.72      B
ATOM   8154  O   ARG B 508      -4.641 -19.201 -24.699  1.00100.94      B
ATOM   8155  N   ALA B 509      -5.709 -20.896 -25.735  1.00101.06      B
ATOM   8156  CA  ALA B 509      -4.564 -21.293 -26.546  1.00100.81      B
ATOM   8157  CB  ALA B 509      -4.918 -22.526 -27.373  1.00100.74      B
ATOM   8158  C   ALA B 509      -4.081 -20.170 -27.457  1.00100.51      B
ATOM   8159  O   ALA B 509      -2.914 -19.781 -27.404  1.00100.26      B
ATOM   8160  N   LYS B 510      -4.978 -19.652 -28.291  1.00100.52      B
ATOM   8161  CA  LYS B 510      -4.627 -18.579 -29.215  1.00101.18      B
ATOM   8162  CB  LYS B 510      -5.886 -18.023 -29.885  1.00 99.96      B
ATOM   8163  CG  LYS B 510      -6.661 -19.052 -30.694  1.00 98.79      B
ATOM   8164  CD  LYS B 510      -7.673 -18.388 -31.619  1.00 98.12      B
ATOM   8165  CE  LYS B 510      -8.426 -19.420 -32.449  1.00 97.54      B
ATOM   8166  NZ  LYS B 510      -9.355 -18.781 -33.419  1.00 96.18      B
ATOM   8167  C   LYS B 510      -3.877 -17.454 -28.507  1.00102.61      B
ATOM   8168  O   LYS B 510      -2.996 -16.816 -29.089  1.00103.15      B
ATOM   8169  N   LEU B 511      -4.227 -17.220 -27.246  1.00103.80      B
ATOM   8170  CA  LEU B 511      -3.599 -16.173 -26.444  1.00104.18      B
ATOM   8171  CB  LEU B 511      -4.610 -15.618 -25.439  1.00104.12      B
ATOM   8172  CG  LEU B 511      -5.750 -14.783 -26.027  1.00104.75      B
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ATOM   8173  CD1 LEU B 511      -6.829 -14.571 -24.978  1.00104.88      B
ATOM   8174  CD2 LEU B 511      -5.200 -13.454 -26.522  1.00104.45      B
ATOM   8175  C   LEU B 511      -2.365 -16.677 -25.702  1.00104.54      B
ATOM   8176  O   LEU B 511      -1.372 -15.959 -25.564  1.00104.39      B
ATOM   8177  N   LEU B 512      -2.440 -17.916 -25.225  1.00105.14      B
ATOM   8178  CA  LEU B 512      -1.347 -18.547 -24.489  1.00105.33      B
ATOM   8179  CB  LEU B 512      -1.789 -19.932 -24.008  1.00104.22      B
ATOM   8180  CG  LEU B 512      -1.368 -20.366 -22.602  1.00103.19      B
ATOM   8181  CD1 LEU B 512      -1.852 -19.355 -21.576  1.00103.27      B
ATOM   8182  CD2 LEU B 512      -1.945 -21.734 -22.307  1.00102.35      B
ATOM   8183  C   LEU B 512      -0.114 -18.673 -25.391  1.00106.05      B
ATOM   8184  O   LEU B 512       0.979 -19.012 -24.933  1.00105.74      B
ATOM   8185  N   SER B 513      -0.319 -18.384 -26.676  1.00106.96      B
ATOM   8186  CA  SER B 513       0.710 -18.440 -27.714  1.00107.38      B
ATOM   8187  CB  SER B 513       0.110 -19.066 -28.978  1.00106.80      B
ATOM   8188  OG  SER B 513      -0.790 -18.144 -29.585  1.00106.33      B
ATOM   8189  C   SER B 513       1.178 -17.021 -28.035  1.00108.15      B
ATOM   8190  O   SER B 513       1.560 -16.740 -29.176  1.00107.62      B
ATOM   8191  N   GLN B 514       1.137 -16.139 -27.034  1.00109.03      B
ATOM   8192  CA  GLN B 514       1.528 -14.747 -27.241  1.00110.18      B
ATOM   8193  CB  GLN B 514       0.441 -14.068 -28.102  1.00110.89      B
ATOM   8194  CG  GLN B 514       0.563 -12.553 -28.319  1.00111.98      B
ATOM   8195  CD  GLN B 514      -0.763 -11.890 -28.705  1.00112.46      B
ATOM   8196  OE1 GLN B 514      -1.833 -12.514 -28.681  1.00112.66      B
ATOM   8197  NE2 GLN B 514      -0.693 -10.609 -29.050  1.00112.12      B
ATOM   8198  C   GLN B 514       1.832 -13.904 -25.977  1.00110.70      B
ATOM   8199  O   GLN B 514       2.711 -14.247 -25.192  1.00110.53      B
ATOM   8200  N   GLY B 515       1.091 -12.815 -25.790  1.00111.65      B
ATOM   8201  CA  GLY B 515       1.304 -11.900 -24.679  1.00112.64      B
ATOM   8202  C   GLY B 515       2.511 -12.006 -23.764  1.00113.50      B
ATOM   8203  O   GLY B 515       3.680 -11.888 -24.134  1.00113.46      B
ATOM   8204  N   GLY B 516       2.149 -12.224 -22.516  1.00114.21      B
ATOM   8205  CA  GLY B 516       3.037 -12.338 -21.376  1.00114.53      B
ATOM   8206  C   GLY B 516       1.818 -11.974 -20.587  1.00115.04      B
ATOM   8207  O   GLY B 516       1.358 -12.663 -19.667  1.00115.48      B
ATOM   8208  N   ARG B 517       1.248 -10.877 -21.082  1.00115.12      B
ATOM   8209  CA  ARG B 517       0.004 -10.318 -20.584  1.00114.63      B
ATOM   8210  CB  ARG B 517      -0.195  -8.865 -21.034  1.00114.87      B
ATOM   8211  CG  ARG B 517       0.560  -7.784 -20.234  1.00114.87      B
ATOM   8212  CD  ARG B 517       1.230  -6.863 -21.221  1.00114.05      B
ATOM   8213  NE  ARG B 517       1.926  -7.722 -22.166  1.00113.58      B
ATOM   8214  CZ  ARG B 517       2.113  -7.453 -23.449  1.00112.88      B
ATOM   8215  NH1 ARG B 517       1.668  -6.319 -23.975  1.00112.41      B
ATOM   8216  NH2 ARG B 517       2.700  -8.358 -24.217  1.00112.48      B
ATOM   8217  C   ARG B 517      -1.092 -11.159 -21.215  1.00114.19      B
ATOM   8218  O   ARG B 517      -1.787 -11.884 -20.513  1.00113.51      B
ATOM   8219  N   ALA B 518      -1.239 -11.086 -22.541  1.00113.95      B
ATOM   8220  CA  ALA B 518      -2.281 -11.879 -23.201  1.00113.99      B
ATOM   8221  CB  ALA B 518      -2.138 -11.832 -24.741  1.00113.75      B
ATOM   8222  C   ALA B 518      -2.277 -13.325 -22.696  1.00113.64      B
ATOM   8223  O   ALA B 518      -3.338 -13.937 -22.593  1.00113.37      B
ATOM   8224  N   ALA B 519      -1.113 -13.877 -22.362  1.00113.51      B
ATOM   8225  CA  ALA B 519      -1.111 -15.237 -21.827  1.00113.31      B
ATOM   8226  CB  ALA B 519       0.290 -15.771 -21.732  1.00113.23      B
ATOM   8227  C   ALA B 519      -1.759 -15.207 -20.442  1.00113.09      B
ATOM   8228  O   ALA B 519      -2.634 -16.025 -20.147  1.00113.26      B
ATOM   8229  N   THR B 520      -1.327 -14.256 -19.608  1.00112.98      B
ATOM   8230  CA  THR B 520      -1.863 -14.064 -18.253  1.00112.76      B
ATOM   8231  CB  THR B 520      -1.426 -12.703 -17.666  1.00113.19      B
ATOM   8232  OG1 THR B 520      -0.001 -12.588 -17.734  1.00113.76      B
ATOM   8233  CG2 THR B 520      -1.858 -12.574 -16.214  1.00113.19      B
ATOM   8234  C   THR B 520      -3.379 -14.073 -18.338  1.00112.02      B
ATOM   8235  O   THR B 520      -4.056 -14.729 -17.542  1.00111.98      B
ATOM   8236  N   CYS B 521      -3.894 -13.339 -19.324  1.00110.68      B
ATOM   8237  CA  CYS B 521      -5.328 -13.263 -19.567  1.00109.09      B
ATOM   8238  CB  CYS B 521      -5.613 -12.478 -20.857  1.00108.50      B
ATOM   8239  SG  CYS B 521      -5.586 -10.663 -20.714  1.00107.44      B
ATOM   8240  C   CYS B 521      -5.878 -14.683 -19.697  1.00108.40      B
ATOM   8241  O   CYS B 521      -6.872 -15.041 -19.061  1.00108.14      B
ATOM   8242  N   GLY B 522      -5.210 -15.484 -20.521  1.00107.33      B
ATOM   8243  CA  GLY B 522      -5.627 -16.855 -20.735  1.00106.33      B
ATOM   8244  C   GLY B 522      -5.361 -17.772 -19.558  1.00106.09      B
ATOM   8245  O   GLY B 522      -6.168 -18.648 -19.241  1.00106.07      B
ATOM   8246  N   ARG B 523      -4.227 -17.573 -18.896  1.00105.83      B
ATOM   8247  CA  ARG B 523      -3.859 -18.395 -17.735  1.00105.37      B
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ATOM   8248  CB  ARG B 523      -2.461 -18.006 -17.231  1.00105.94      B
ATOM   8249  CG  ARG B 523      -1.967 -18.845 -16.044  1.00107.00      B
ATOM   8250  CD  ARG B 523      -0.661 -18.318 -15.437  1.00108.32      B
ATOM   8251  NE  ARG B 523      -0.438 -18.855 -14.090  1.00109.75      B
ATOM   8252  CZ  ARG B 523       0.504 -18.426 -13.251  1.00109.95      B
ATOM   8253  NH1 ARG B 523       1.325 -17.448 -13.616  1.00109.82      B
ATOM   8254  NH2 ARG B 523       0.615 -18.963 -12.040  1.00109.61      B
ATOM   8255  C   ARG B 523      -4.863 -18.294 -16.579  1.00104.82      B
ATOM   8256  O   ARG B 523      -5.425 -19.306 -16.161  1.00104.57      B
ATOM   8257  N   TYR B 524      -5.069 -17.078 -16.072  1.00103.92      B
ATOM   8258  CA  TYR B 524      -5.979 -16.821 -14.958  1.00102.61      B
ATOM   8259  CB  TYR B 524      -5.681 -15.428 -14.373  1.00102.63      B
ATOM   8260  CG  TYR B 524      -4.411 -15.367 -13.577  1.00103.39      B
ATOM   8261  CD1 TYR B 524      -3.165 -15.431 -14.201  1.00103.29      B
ATOM   8262  CE1 TYR B 524      -1.982 -15.490 -13.453  1.00103.72      B
ATOM   8263  CD2 TYR B 524      -4.453 -15.345 -12.189  1.00103.84      B
ATOM   8264  CE2 TYR B 524      -3.276 -15.404 -11.428  1.00104.45      B
ATOM   8265  CZ  TYR B 524      -2.046 -15.481 -12.069  1.00104.17      B
ATOM   8266  OH  TYR B 524      -0.887 -15.578 -11.329  1.00104.32      B
ATOM   8267  C   TYR B 524      -7.471 -16.946 -15.225  1.00101.55      B
ATOM   8268  O   TYR B 524      -8.171 -17.733 -14.591  1.00101.52      B
ATOM   8269  N   LEU B 525      -7.939 -16.152 -16.167  1.00 99.94      B
ATOM   8270  CA  LEU B 525      -9.342 -16.143 -16.523  1.00 98.45      B
ATOM   8271  CB  LEU B 525      -9.574 -15.177 -17.680  1.00 98.25      B
ATOM   8272  CG  LEU B 525      -8.938 -13.799 -17.521  1.00 98.40      B
ATOM   8273  CD1 LEU B 525      -9.289 -12.923 -18.712  1.00 98.03      B
ATOM   8274  CD2 LEU B 525      -9.415 -13.163 -16.230  1.00 98.79      B
ATOM   8275  C   LEU B 525      -9.909 -17.520 -16.897  1.00 97.68      B
ATOM   8276  O   LEU B 525     -10.867 -17.986 -16.283  1.00 97.40      B
ATOM   8277  N   PHE B 526      -9.297 -18.180 -17.878  1.00 96.48      B
ATOM   8278  CA  PHE B 526      -9.796 -19.454 -18.354  1.00 95.25      B
ATOM   8279  CB  PHE B 526      -9.607 -19.517 -19.872  1.00 93.24      B
ATOM   8280  CG  PHE B 526     -10.158 -18.307 -20.619  1.00 91.87      B
ATOM   8281  CD1 PHE B 526     -11.520 -18.027 -20.618  1.00 91.31      B
ATOM   8282  CD2 PHE B 526      -9.308 -17.440 -21.312  1.00 91.56      B
ATOM   8283  CE1 PHE B 526     -12.032 -16.895 -21.278  1.00 90.45      B
ATOM   8284  CE2 PHE B 526      -9.809 -16.307 -21.975  1.00 89.94      B
ATOM   8285  CZ  PHE B 526     -11.165 -16.036 -21.962  1.00 89.60      B
ATOM   8286  C   PHE B 526      -9.244 -20.737 -17.711  1.00 95.68      B
ATOM   8287  O   PHE B 526      -9.032 -21.722 -18.424  1.00 95.51      B
ATOM   8288  N   ASN B 527      -9.031 -20.773 -16.395  1.00 96.21      B
ATOM   8289  CA  ASN B 527      -8.528 -22.019 -15.825  1.00 96.96      B
ATOM   8290  CB  ASN B 527      -7.641 -21.753 -14.603  1.00 97.03      B
ATOM   8291  CG  ASN B 527      -6.738 -22.937 -14.266  1.00 97.39      B
ATOM   8292  OD1 ASN B 527      -5.966 -23.396 -15.107  1.00 97.05      B
ATOM   8293  ND2 ASN B 527      -6.832 -23.432 -13.027  1.00 96.86      B
ATOM   8294  C   ASN B 527      -9.728 -22.899 -15.483  1.00 97.57      B
ATOM   8295  O   ASN B 527      -9.587 -23.969 -14.896  1.00 97.43      B
ATOM   8296  N   TRP B 528     -10.917 -22.422 -15.853  1.00 98.50      B
ATOM   8297  CA  TRP B 528     -12.160 -23.157 -15.602  1.00 99.78      B
ATOM   8298  CB  TRP B 528     -13.346 -22.199 -15.369  1.00 98.68      B
ATOM   8299  CG  TRP B 528     -13.592 -21.191 -16.509  1.00 97.44      B
ATOM   8300  CD2 TRP B 528     -14.409 -21.386 -17.676  1.00 96.97      B
ATOM   8301  CE2 TRP B 528     -14.291 -20.223 -18.475  1.00 96.60      B
ATOM   8302  CE3 TRP B 528     -15.227 -22.429 -18.123  1.00 97.20      B
ATOM   8303  CD1 TRP B 528     -13.031 -19.948 -16.649  1.00 97.02      B
ATOM   8304  NE1 TRP B 528     -13.446 -19.365 -17.826  1.00 96.54      B
ATOM   8305  CZ2 TRP B 528     -14.957 -20.079 -19.697  1.00 96.19      B
ATOM   8306  CZ3 TRP B 528     -15.887 -22.286 -19.336  1.00 97.26      B
ATOM   8307  CH2 TRP B 528     -15.749 -21.118 -20.108  1.00 96.69      B
ATOM   8308  C   TRP B 528     -12.478 -24.060 -16.782  1.00100.91      B
ATOM   8309  O   TRP B 528     -13.342 -24.940 -16.709  1.00100.56      B
ATOM   8310  N   ALA B 529     -11.758 -23.838 -17.872  1.00102.44      B
ATOM   8311  CA  ALA B 529     -11.955 -24.604 -19.091  1.00104.21      B
ATOM   8312  CB  ALA B 529     -11.729 -23.702 -20.293  1.00103.56      B
ATOM   8313  C   ALA B 529     -11.055 -25.849 -19.184  1.00105.46      B
ATOM   8314  O   ALA B 529     -11.047 -26.529 -20.223  1.00105.33      B
ATOM   8315  N   VAL B 530     -10.311 -26.150 -18.111  1.00107.06      B
ATOM   8316  CA  VAL B 530      -9.432 -27.326 -18.087  1.00108.47      B
ATOM   8317  CB  VAL B 530      -7.999 -26.983 -18.572  1.00107.95      B
ATOM   8318  CG1 VAL B 530      -8.029 -26.457 -19.989  1.00108.00      B
ATOM   8319  CG2 VAL B 530      -7.336 -25.993 -17.618  1.00107.65      B
ATOM   8320  C   VAL B 530      -9.266 -28.055 -16.745  1.00109.74      B
ATOM   8321  O   VAL B 530      -9.119 -27.429 -15.692  1.00109.56      B
ATOM   8322  N   ARG B 531      -9.275 -29.386 -16.805  1.00111.23      B
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ATOM	8323	CA	ARG	B	531	-9.071	-30.225	-15.626	1.00112.48	B
ATOM	8324	CB	ARG	B	531	-9.754	-31.581	-15.796	1.00112.76	B
ATOM	8325	CG	ARG	B	531	-11.253	-31.517	-15.976	1.00114.00	B
ATOM	8326	CD	ARG	B	531	-11.806	-32.925	-16.048	1.00114.77	B
ATOM	8327	NE	ARG	B	531	-13.228	-32.959	-16.366	1.00115.03	B
ATOM	8328	CZ	ARG	B	531	-13.933	-34.080	-16.466	1.00114.80	B
ATOM	8329	NH1	ARG	B	531	-13.340	-35.251	-16.270	1.00114.52	B
ATOM	8330	NH2	ARG	B	531	-15.226	-34.036	-16.765	1.00114.27	B
ATOM	8331	C	ARG	B	531	-7.564	-30.429	-15.538	1.00113.04	B
ATOM	8332	O	ARG	B	531	-7.080	-31.419	-14.990	1.00113.32	B
ATOM	8333	N	THR	B	532	-6.837	-29.489	-16.135	1.00113.71	B
ATOM	8334	CA	THR	B	532	-5.374	-29.483	-16.155	1.00114.21	B
ATOM	8335	CB	THR	B	532	-4.813	-28.780	-17.429	1.00114.07	B
ATOM	8336	OG1	THR	B	532	-5.203	-29.504	-18.603	1.00114.24	B
ATOM	8337	CG2	THR	B	532	-3.295	-28.674	-17.361	1.00112.75	B
ATOM	8338	C	THR	B	532	-4.980	-28.620	-14.967	1.00114.38	B
ATOM	8339	O	THR	B	532	-4.377	-29.087	-13.995	1.00114.87	B
ATOM	8340	N	LYS	B	533	-5.359	-27.348	-15.082	1.00113.97	B
ATOM	8341	CA	LYS	B	533	-5.099	-26.308	-14.090	1.00113.08	B
ATOM	8342	CB	LYS	B	533	-4.984	-26.874	-12.669	1.00111.94	B
ATOM	8343	CG	LYS	B	533	-6.229	-27.497	-12.074	1.00110.35	B
ATOM	8344	CD	LYS	B	533	-5.879	-28.025	-10.686	1.00109.12	B
ATOM	8345	CE	LYS	B	533	-7.021	-28.771	-10.024	1.00108.15	B
ATOM	8346	NZ	LYS	B	533	-6.618	-29.203	-8.657	1.00106.78	B
ATOM	8347	C	LYS	B	533	-3.799	-25.559	-14.369	1.00112.88	B
ATOM	8348	O	LYS	B	533	-3.209	-25.626	-15.451	1.00112.22	B
ATOM	8349	N	LEU	B	534	-3.392	-24.853	-13.327	1.00112.61	B
ATOM	8350	CA	LEU	B	534	-2.193	-24.053	-13.225	1.00112.66	B
ATOM	8351	CB	LEU	B	534	-1.989	-23.088	-14.411	1.00112.41	B
ATOM	8352	CG	LEU	B	534	-0.651	-22.318	-14.314	1.00112.39	B
ATOM	8353	CD1	LEU	B	534	0.447	-23.280	-13.871	1.00112.22	B
ATOM	8354	CD2	LEU	B	534	-0.274	-21.670	-15.641	1.00112.05	B
ATOM	8355	C	LEU	B	534	-2.549	-23.290	-11.973	1.00112.95	B
ATOM	8356	O	LEU	B	534	-3.317	-22.325	-12.011	1.00113.59	B
ATOM	8357	N	LYS	B	535	-2.060	-23.779	-10.845	1.00112.94	B
ATOM	8358	CA	LYS	B	535	-2.326	-23.098	-9.599	1.00112.24	B
ATOM	8359	CB	LYS	B	535	-1.654	-23.871	-8.470	1.00112.08	B
ATOM	8360	CG	LYS	B	535	-2.117	-25.327	-8.482	1.00112.15	B
ATOM	8361	CD	LYS	B	535	-1.446	-26.202	-7.445	1.00113.11	B
ATOM	8362	CE	LYS	B	535	-1.967	-27.636	-7.545	1.00112.92	B
ATOM	8363	NZ	LYS	B	535	-1.355	-28.576	-6.563	1.00112.66	B
ATOM	8364	C	LYS	B	535	-1.803	-21.671	-9.788	1.00112.04	B
ATOM	8365	O	LYS	B	535	-0.674	-21.438	-10.235	1.00111.82	B
ATOM	8366	N	LEU	B	536	-2.673	-20.722	-9.478	1.00111.85	B
ATOM	8367	CA	LEU	B	536	-2.402	-19.309	-9.660	1.00111.31	B
ATOM	8368	CB	LEU	B	536	-3.725	-18.610	-9.970	1.00111.28	B
ATOM	8369	CG	LEU	B	536	-4.750	-19.551	-10.630	1.00110.94	B
ATOM	8370	CD1	LEU	B	536	-5.299	-20.543	-9.595	1.00110.91	B
ATOM	8371	CD2	LEU	B	536	-5.884	-18.756	-11.236	1.00110.52	B
ATOM	8372	C	LEU	B	536	-1.712	-18.647	-8.474	1.00111.23	B
ATOM	8373	O	LEU	B	536	-2.017	-18.922	-7.318	1.00111.12	B
ATOM	8374	N	THR	B	537	-0.771	-17.765	-8.778	1.00110.74	B
ATOM	8375	CA	THR	B	537	-0.043	-17.052	-7.741	1.00110.33	B
ATOM	8376	CB	THR	B	537	1.451	-17.266	-7.872	1.00110.10	B
ATOM	8377	OG1	THR	B	537	1.876	-16.804	-9.156	1.00109.95	B
ATOM	8378	CG2	THR	B	537	1.766	-18.728	-7.726	1.00110.10	B
ATOM	8379	C	THR	B	537	-0.322	-15.565	-7.805	1.00110.46	B
ATOM	8380	O	THR	B	537	-0.101	-14.934	-8.829	1.00110.46	B
ATOM	8381	N	PRO	B	538	-0.789	-14.982	-6.688	1.00110.53	B
ATOM	8382	CD	PRO	B	538	-0.788	-15.542	-5.319	1.00110.62	B
ATOM	8383	CA	PRO	B	538	-1.086	-13.545	-6.663	1.00110.59	B
ATOM	8384	CB	PRO	B	538	-0.918	-13.204	-5.176	1.00110.43	B
ATOM	8385	CG	PRO	B	538	-1.460	-14.462	-4.514	1.00110.20	B
ATOM	8386	C	PRO	B	538	-0.130	-12.738	-7.570	1.00110.64	B
ATOM	8387	O	PRO	B	538	0.968	-12.380	-7.155	1.00110.85	B
ATOM	8388	N	ILE	B	539	-0.553	-12.471	-8.804	1.00111.07	B
ATOM	8389	CA	ILE	B	539	0.208	-11.684	-9.783	1.00111.64	B
ATOM	8390	CB	ILE	B	539	-0.639	-11.479	-11.080	1.00110.66	B
ATOM	8391	CG2	ILE	B	539	-0.144	-12.408	-12.188	1.00110.48	B
ATOM	8392	CG1	ILE	B	539	-2.117	-11.623	-10.751	1.00110.11	B
ATOM	8393	CD1	ILE	B	539	-3.017	-11.465	-11.957	1.00109.34	B
ATOM	8394	C	ILE	B	539	0.616	-10.299	-9.246	1.00112.77	B
ATOM	8395	O	ILE	B	539	0.073	-9.847	-8.242	1.00112.88	B
ATOM	8396	N	PRO	B	540	1.561	-9.605	-9.934	1.00113.70	B
ATOM	8397	CD	PRO	B	540	2.098	-9.998	-11.244	1.00113.54	B

ATOM	8398	CA	PRO	B	540	2.092	-8.272	-9.594	1.00114.42	B
ATOM	8399	CB	PRO	B	540	2.971	-7.932	-10.809	1.00113.63	B
ATOM	8400	CG	PRO	B	540	3.387	-9.262	-11.267	1.00113.07	B
ATOM	8401	C	PRO	B	540	0.999	-7.224	-9.348	1.00115.16	B
ATOM	8402	O	PRO	B	540	0.493	-7.156	-8.233	1.00115.09	B
ATOM	8403	N	ALA	B	541	0.625	-6.421	-10.354	1.00116.02	B
ATOM	8404	CA	ALA	B	541	-0.415	-5.387	-10.163	1.00116.71	B
ATOM	8405	CB	ALA	B	541	-0.949	-4.934	-11.521	1.00116.26	B
ATOM	8406	C	ALA	B	541	-1.591	-5.827	-9.263	1.00117.44	B
ATOM	8407	O	ALA	B	541	-2.456	-6.583	-9.694	1.00117.45	B
ATOM	8408	N	ALA	B	542	-1.625	-5.318	-8.033	1.00118.20	B
ATOM	8409	CA	ALA	B	542	-2.672	-5.621	-7.046	1.00118.84	B
ATOM	8410	CB	ALA	B	542	-2.773	-7.126	-6.788	1.00117.98	B
ATOM	8411	C	ALA	B	542	-2.127	-4.921	-5.827	1.00119.02	B
ATOM	8412	O	ALA	B	542	-2.853	-4.402	-4.983	1.00119.23	B
ATOM	8413	N	SER	B	543	-0.804	-4.957	-5.764	1.00119.12	B
ATOM	8414	CA	SER	B	543	-0.018	-4.304	-4.739	1.00118.74	B
ATOM	8415	CB	SER	B	543	1.162	-5.199	-4.305	1.00118.26	B
ATOM	8416	OG	SER	B	543	0.779	-6.550	-4.101	1.00117.48	B
ATOM	8417	C	SER	B	543	0.521	-3.103	-5.533	1.00118.75	B
ATOM	8418	O	SER	B	543	1.398	-2.374	-5.057	1.00119.15	B
ATOM	8419	N	GLN	B	544	-0.013	-2.910	-6.746	1.00117.93	B
ATOM	8420	CA	GLN	B	544	0.447	-1.838	-7.635	1.00117.19	B
ATOM	8421	CB	GLN	B	544	1.587	-2.340	-8.504	1.00117.36	B
ATOM	8422	CG	GLN	B	544	2.446	-3.362	-7.848	1.00117.41	B
ATOM	8423	CD	GLN	B	544	3.318	-4.059	-8.843	1.00117.44	B
ATOM	8424	OE1	GLN	B	544	2.871	-4.949	-9.570	1.00117.52	B
ATOM	8425	NE2	GLN	B	544	4.579	-3.652	-8.899	1.00116.92	B
ATOM	8426	C	GLN	B	544	-0.609	-1.290	-8.582	1.00117.01	B
ATOM	8427	O	GLN	B	544	-0.290	-0.505	-9.481	1.00117.40	B
ATOM	8428	N	LEU	B	545	-1.850	-1.728	-8.423	1.00116.05	B
ATOM	8429	CA	LEU	B	545	-2.902	-1.227	-9.284	1.00114.80	B
ATOM	8430	CB	LEU	B	545	-4.191	-2.011	-9.102	1.00114.30	B
ATOM	8431	CG	LEU	B	545	-4.091	-3.224	-10.016	1.00113.72	B
ATOM	8432	CD1	LEU	B	545	-5.389	-3.979	-10.030	1.00113.32	B
ATOM	8433	CD2	LEU	B	545	-3.722	-2.742	-11.416	1.00113.20	B
ATOM	8434	C	LEU	B	545	-3.164	0.236	-9.041	1.00114.62	B
ATOM	8435	O	LEU	B	545	-3.256	0.700	-7.906	1.00114.68	B
ATOM	8436	N	ASP	B	546	-3.262	0.965	-10.137	1.00114.31	B
ATOM	8437	CA	ASP	B	546	-3.514	2.391	-10.110	1.00113.84	B
ATOM	8438	CB	ASP	B	546	-3.219	2.938	-11.500	1.00113.20	B
ATOM	8439	CG	ASP	B	546	-3.668	1.985	-12.588	1.00113.26	B
ATOM	8440	OD1	ASP	B	546	-4.892	1.747	-12.691	1.00113.02	B
ATOM	8441	OD2	ASP	B	546	-2.802	1.465	-13.329	1.00113.11	B
ATOM	8442	C	ASP	B	546	-4.973	2.668	-9.720	1.00113.70	B
ATOM	8443	O	ASP	B	546	-5.638	3.503	-10.354	1.00113.69	B
ATOM	8444	N	LEU	B	547	-5.463	1.982	-8.685	1.00113.09	B
ATOM	8445	CA	LEU	B	547	-6.831	2.177	-8.249	1.00112.33	B
ATOM	8446	CB	LEU	B	547	-7.268	1.087	-7.235	1.00111.81	B
ATOM	8447	CG	LEU	B	547	-8.327	0.054	-7.684	1.00111.43	B
ATOM	8448	CD1	LEU	B	547	-7.891	-0.572	-8.989	1.00111.17	B
ATOM	8449	CD2	LEU	B	547	-8.528	-1.033	-6.617	1.00111.08	B
ATOM	8450	C	LEU	B	547	-7.001	3.576	-7.663	1.00111.80	B
ATOM	8451	O	LEU	B	547	-7.220	3.758	-6.455	1.00112.18	B
ATOM	8452	N	SER	B	548	-6.883	4.565	-8.545	1.00110.46	B
ATOM	8453	CA	SER	B	548	-7.064	5.965	-8.183	1.00108.80	B
ATOM	8454	CB	SER	B	548	-7.218	6.837	-9.449	1.00108.89	B
ATOM	8455	OG	SER	B	548	-8.220	6.338	-10.293	1.00108.29	B
ATOM	8456	C	SER	B	548	-8.257	6.202	-7.280	1.00107.59	B
ATOM	8457	O	SER	B	548	-8.190	5.911	-6.080	1.00107.51	B
ATOM	8458	N	GLY	B	549	-9.320	6.764	-7.845	1.00105.79	B
ATOM	8459	CA	GLY	B	549	-10.489	7.023	-7.022	1.00103.10	B
ATOM	8460	C	GLY	B	549	-11.649	6.211	-7.530	1.00101.25	B
ATOM	8461	O	GLY	B	549	-12.494	6.772	-8.252	1.00101.46	B
ATOM	8462	N	TRP	B	550	-11.643	4.907	-7.225	1.00 99.18	B
ATOM	8463	CA	TRP	B	550	-12.670	4.019	-7.740	1.00 96.43	B
ATOM	8464	CB	TRP	B	550	-12.169	2.563	-7.858	1.00 98.02	B
ATOM	8465	CG	TRP	B	550	-11.082	2.407	-8.887	1.00100.16	B
ATOM	8466	CD2	TRP	B	550	-11.255	2.137	-10.294	1.00100.80	B
ATOM	8467	CE2	TRP	B	550	-10.007	2.349	-10.921	1.00101.27	B
ATOM	8468	CE3	TRP	B	550	-12.337	1.716	-11.077	1.00100.89	B
ATOM	8469	CD1	TRP	B	550	-9.781	2.755	-8.730	1.00101.34	B
ATOM	8470	NE1	TRP	B	550	-9.127	2.737	-9.945	1.00102.07	B
ATOM	8471	CZ2	TRP	B	550	-9.825	2.204	-12.305	1.00101.45	B
ATOM	8472	CZ3	TRP	B	550	-12.158	1.569	-12.447	1.00101.03	B

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ATOM   8473  CH2 TRP B 550     -10.908   1.799 -13.046  1.00101.30      B
ATOM   8474  C   TRP B 550     -13.958   3.997  -6.970  1.00 93.40      B
ATOM   8475  O   TRP B 550     -14.994   4.514  -7.403  1.00 93.69      B
ATOM   8476  N   PHE B 551     -13.883   3.376  -5.811  1.00 89.39      B
ATOM   8477  CA  PHE B 551     -15.032   3.199  -4.976  1.00 86.07      B
ATOM   8478  CB  PHE B 551     -15.025   1.756  -4.461  1.00 86.86      B
ATOM   8479  CG  PHE B 551     -14.864   0.754  -5.584  1.00 87.25      B
ATOM   8480  CD1 PHE B 551     -15.802   0.677  -6.628  1.00 86.60      B
ATOM   8481  CD2 PHE B 551     -13.670   0.059  -5.716  1.00 87.96      B
ATOM   8482  CE1 PHE B 551     -15.525  -0.049  -7.772  1.00 86.63      B
ATOM   8483  CE2 PHE B 551     -13.391  -0.661  -6.846  1.00 88.09      B
ATOM   8484  CZ  PHE B 551     -14.316  -0.713  -7.881  1.00 87.37      B
ATOM   8485  C   PHE B 551     -14.908   4.242  -3.918  1.00 83.68      B
ATOM   8486  O   PHE B 551     -14.588   3.957  -2.766  1.00 83.36      B
ATOM   8487  N   VAL B 552     -15.141   5.476  -4.376  1.00 80.41      B
ATOM   8488  CA  VAL B 552     -15.123   6.705  -3.578  1.00 77.62      B
ATOM   8489  CB  VAL B 552     -14.197   7.754  -4.217  1.00 77.59      B
ATOM   8490  CG1 VAL B 552     -14.276   9.075  -3.464  1.00 76.99      B
ATOM   8491  CG2 VAL B 552     -12.795   7.210  -4.238  1.00 77.72      B
ATOM   8492  C   VAL B 552     -16.547   7.294  -3.553  1.00 75.16      B
ATOM   8493  O   VAL B 552     -17.135   7.524  -2.482  1.00 73.98      B
ATOM   8494  N   ALA B 553     -17.093   7.528  -4.748  1.00 72.62      B
ATOM   8495  CA  ALA B 553     -18.426   8.106  -4.889  1.00 70.99      B
ATOM   8496  CB  ALA B 553     -18.367   9.618  -4.609  1.00 70.65      B
ATOM   8497  C   ALA B 553     -19.085   7.863  -6.248  1.00 69.72      B
ATOM   8498  O   ALA B 553     -18.421   7.719  -7.277  1.00 68.91      B
ATOM   8499  N   GLY B 554     -20.412   7.838  -6.231  1.00 68.39      B
ATOM   8500  CA  GLY B 554     -21.165   7.639  -7.453  1.00 66.53      B
ATOM   8501  C   GLY B 554     -21.317   8.954  -8.191  1.00 65.92      B
ATOM   8502  O   GLY B 554     -21.428  10.010  -7.553  1.00 66.98      B
ATOM   8503  N   TYR B 555     -21.319   8.906  -9.519  1.00 64.15      B
ATOM   8504  CA  TYR B 555     -21.431  10.122 -10.320  1.00 63.08      B
ATOM   8505  CB  TYR B 555     -20.067  10.506 -10.868  1.00 62.47      B
ATOM   8506  CG  TYR B 555     -19.034  10.757  -9.802  1.00 61.36      B
ATOM   8507  CD1 TYR B 555     -19.099  11.888  -8.985  1.00 60.60      B
ATOM   8508  CE1 TYR B 555     -18.135  12.125  -8.010  1.00 60.10      B
ATOM   8509  CD2 TYR B 555     -17.986   9.869  -9.615  1.00 61.02      B
ATOM   8510  CE2 TYR B 555     -17.020  10.090  -8.649  1.00 61.25      B
ATOM   8511  CZ  TYR B 555     -17.094  11.218  -7.845  1.00 60.28      B
ATOM   8512  OH  TYR B 555     -16.134  11.432  -6.879  1.00 59.88      B
ATOM   8513  C   TYR B 555     -22.382   9.910 -11.493  1.00 63.00      B
ATOM   8514  O   TYR B 555     -22.239  10.553 -12.546  1.00 62.03      B
ATOM   8515  N   SER B 556     -23.336   8.996 -11.312  1.00 63.58      B
ATOM   8516  CA  SER B 556     -24.347   8.661 -12.326  1.00 64.55      B
ATOM   8517  CB  SER B 556     -25.271   7.559 -11.793  1.00 65.50      B
ATOM   8518  OG  SER B 556     -26.276   7.216 -12.741  1.00 66.96      B
ATOM   8519  C   SER B 556     -25.206   9.844 -12.772  1.00 64.41      B
ATOM   8520  O   SER B 556     -26.146  10.225 -12.069  1.00 64.40      B
ATOM   8521  N   GLY B 557     -24.895  10.378 -13.956  1.00 64.09      B
ATOM   8522  CA  GLY B 557     -25.620  11.508 -14.525  1.00 63.06      B
ATOM   8523  C   GLY B 557     -24.850  12.793 -14.264  1.00 63.11      B
ATOM   8524  O   GLY B 557     -25.241  13.896 -14.699  1.00 62.87      B
ATOM   8525  N   GLY B 558     -23.729  12.647 -13.566  1.00 63.86      B
ATOM   8526  CA  GLY B 558     -22.921  13.809 -13.243  1.00 63.66      B
ATOM   8527  C   GLY B 558     -21.950  14.318 -14.297  1.00 63.75      B
ATOM   8528  O   GLY B 558     -21.207  15.243 -13.992  1.00 64.85      B
ATOM   8529  N   ASP B 559     -21.946  13.749 -15.505  1.00 62.92      B
ATOM   8530  CA  ASP B 559     -21.036  14.185 -16.565  1.00 62.32      B
ATOM   8531  CB  ASP B 559     -21.420  15.607 -17.022  1.00 60.64      B
ATOM   8532  CG  ASP B 559     -20.707  16.025 -18.292  1.00 61.51      B
ATOM   8533  OD1 ASP B 559     -20.653  15.203 -19.239  1.00 61.12      B
ATOM   8534  OD2 ASP B 559     -20.208  17.170 -18.343  1.00 62.02      B
ATOM   8535  C   ASP B 559     -19.595  14.139 -16.033  1.00 63.57      B
ATOM   8536  O   ASP B 559     -18.786  15.021 -16.315  1.00 64.24      B
ATOM   8537  N   ILE B 560     -19.290  13.096 -15.260  1.00 65.17      B
ATOM   8538  CA  ILE B 560     -17.957  12.908 -14.677  1.00 66.98      B
ATOM   8539  CB  ILE B 560     -18.042  12.393 -13.222  1.00 65.74      B
ATOM   8540  CG2 ILE B 560     -16.635  12.126 -12.667  1.00 63.77      B
ATOM   8541  CG1 ILE B 560     -18.817  13.409 -12.376  1.00 64.14      B
ATOM   8542  CD1 ILE B 560     -18.094  14.722 -12.171  1.00 62.47      B
ATOM   8543  C   ILE B 560     -17.092  11.936 -15.491  1.00 69.15      B
ATOM   8544  O   ILE B 560     -17.559  10.899 -15.955  1.00 68.35      B
ATOM   8545  N   TYR B 561     -15.821  12.292 -15.636  1.00 72.40      B
ATOM   8546  CA  TYR B 561     -14.852  11.521 -16.395  1.00 75.86      B
ATOM   8547  CB  TYR B 561     -14.553  12.231 -17.716  1.00 77.02      B
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ATOM   8548  CG  TYR B 561     -13.543  11.535 -18.606  1.00 78.11      B
ATOM   8549  CD1 TYR B 561     -13.902  10.408 -19.347  1.00 78.78      B
ATOM   8550  CE1 TYR B 561     -12.971   9.736 -20.149  1.00 78.58      B
ATOM   8551  CD2 TYR B 561     -12.221  11.982 -18.687  1.00 78.14      B
ATOM   8552  CE2 TYR B 561     -11.277  11.313 -19.487  1.00 78.29      B
ATOM   8553  CZ  TYR B 561     -11.661  10.191 -20.213  1.00 78.39      B
ATOM   8554  OH  TYR B 561     -10.745   9.521 -20.995  1.00 78.15      B
ATOM   8555  C   TYR B 561     -13.556  11.400 -15.612  1.00 78.30      B
ATOM   8556  O   TYR B 561     -12.684  12.258 -15.722  1.00 78.54      B
ATOM   8557  N   HIS B 562     -13.421  10.355 -14.812  1.00 81.17      B
ATOM   8558  CA  HIS B 562     -12.192  10.185 -14.058  1.00 84.66      B
ATOM   8559  CB  HIS B 562     -12.432   9.325 -12.818  1.00 85.87      B
ATOM   8560  CG  HIS B 562     -13.082  10.048 -11.675  1.00 87.49      B
ATOM   8561  CD2 HIS B 562     -13.594  11.299 -11.567  1.00 87.60      B
ATOM   8562  ND1 HIS B 562     -13.304   9.438 -10.460  1.00 87.99      B
ATOM   8563  CE1 HIS B 562     -13.929  10.277  -9.653  1.00 88.67      B
ATOM   8564  NE2 HIS B 562     -14.118  11.412 -10.300  1.00 88.84      B
ATOM   8565  C   HIS B 562     -11.171   9.512 -14.983  1.00 86.29      B
ATOM   8566  O   HIS B 562     -11.486   8.547 -15.681  1.00 87.46      B
ATOM   8567  N   SER B 563      -9.953  10.046 -15.004  1.00 88.37      B
ATOM   8568  CA  SER B 563      -8.872   9.525 -15.848  1.00 90.00      B
ATOM   8569  CB  SER B 563      -8.665  10.438 -17.063  1.00 90.58      B
ATOM   8570  OG  SER B 563      -8.453  11.791 -16.668  1.00 91.63      B
ATOM   8571  C   SER B 563      -7.555   9.400 -15.088  1.00 90.53      B
ATOM   8572  O   SER B 563      -7.003   8.280 -15.029  1.00 90.35      B
ATOM   8573  OXT SER B 563      -7.081  10.430 -14.556  1.00 91.06      B
ATOM   8574  OH2 WAT S   1     -23.007  47.531  46.796  1.00 33.88      S
ATOM   8575  OH2 WAT S   2     -20.799  30.948  51.047  1.00 27.44      S
ATOM   8576  OH2 WAT S   3     -16.674  26.956   8.438  1.00 25.70      S
ATOM   8577  OH2 WAT S   4     -28.139  24.481   6.790  1.00 24.30      S
ATOM   8578  OH2 WAT S   5      -9.675  38.172   6.844  1.00 28.11      S
ATOM   8579  OH2 WAT S   6     -47.868  21.895  -9.728  1.00 30.89      S
ATOM   8580  OH2 WAT S   7     -30.539  22.619  11.382  1.00 35.12      S
ATOM   8581  OH2 WAT S   8     -16.101  39.560  40.079  1.00 39.19      S
ATOM   8582  OH2 WAT S   9     -26.457  40.035  17.819  1.00 22.21      S
ATOM   8583  OH2 WAT S  10     -11.695  39.813  17.519  1.00 27.03      S
ATOM   8584  OH2 WAT S  11     -25.430  38.107  21.372  1.00 24.14      S
ATOM   8585  OH2 WAT S  12     -18.586  50.947  14.409  1.00 32.11      S
ATOM   8586  OH2 WAT S  13     -21.538  47.810   4.476  1.00 40.45      S
ATOM   8587  OH2 WAT S  14     -17.737  53.946  37.286  1.00 34.97      S
ATOM   8588  OH2 WAT S  15     -19.378  50.678   6.177  1.00 30.70      S
ATOM   8589  OH2 WAT S  16     -36.200  15.273 -14.405  1.00 41.50      S
ATOM   8590  OH2 WAT S  17      -8.598  29.207 -28.468  1.00 37.95      S
ATOM   8591  OH2 WAT S  18     -21.213  26.211   7.010  1.00 35.57      S
ATOM   8592  OH2 WAT S  19     -15.258  33.187  -3.141  1.00 38.87      S
ATOM   8593  OH2 WAT S  20     -24.091  53.729  33.456  1.00 28.05      S
ATOM   8594  OH2 WAT S  21     -19.707  56.749   0.947  1.00 32.03      S
ATOM   8595  OH2 WAT S  22     -38.204  31.915   1.441  1.00 35.00      S
ATOM   8596  OH2 WAT S  23      -8.000  21.906  19.530  1.00 37.71      S
ATOM   8597  OH2 WAT S  24     -19.203  50.286  43.988  1.00 42.21      S
ATOM   8598  OH2 WAT S  25     -23.601  13.181  -6.781  1.00 34.44      S
ATOM   8599  OH2 WAT S  26     -17.655  28.714   4.618  1.00 34.75      S
ATOM   8600  OH2 WAT S  27     -28.970  77.396  35.376  1.00 38.44      S
ATOM   8601  OH2 WAT S  28     -31.918  21.716   7.737  1.00 33.48      S
ATOM   8602  OH2 WAT S  29     -38.551   9.600 -11.851  1.00 32.07      S
ATOM   8603  OH2 WAT S  30     -30.662  38.150  -8.701  1.00 30.35      S
ATOM   8604  OH2 WAT S  31     -12.216  60.697   6.346  1.00 42.87      S
ATOM   8605  OH2 WAT S  32     -35.753  48.538  12.334  1.00 40.01      S
ATOM   8606  OH2 WAT S  33     -38.189  17.510   2.560  1.00 35.01      S
ATOM   8607  OH2 WAT S  34     -33.744  24.006 -14.532  1.00 40.44      S
ATOM   8608  OH2 WAT S  35     -16.952  53.443  32.325  1.00 33.91      S
ATOM   8609  OH2 WAT S  36     -17.195  22.816   8.270  1.00 32.58      S
ATOM   8610  OH2 WAT S  37     -21.074  44.198  49.672  1.00 48.32      S
ATOM   8611  OH2 WAT S  38     -33.601  15.580   0.678  1.00 49.59      S
ATOM   8612  OH2 WAT S  39     -25.910  38.222 -14.976  1.00 34.72      S
ATOM   8613  OH2 WAT S  40     -17.577  49.735  12.319  1.00 50.70      S
ATOM   8614  OH2 WAT S  41     -20.727  43.840  26.202  1.00 30.63      S
ATOM   8615  OH2 WAT S  42     -27.697  38.355  19.737  1.00 34.94      S
ATOM   8616  OH2 WAT S  43     -28.305  46.877  -5.942  1.00 41.10      S
ATOM   8617  OH2 WAT S  44     -25.053  21.003 -23.297  1.00 45.38      S
ATOM   8618  OH2 WAT S  45       0.348  36.040  33.269  1.00 30.18      S
ATOM   8619  OH2 WAT S  46      -9.122  21.121  12.013  1.00 31.46      S
ATOM   8620  OH2 WAT S  47      -7.226  40.686  33.623  1.00 36.45      S
ATOM   8621  OH2 WAT S  48     -31.633   9.248 -11.810  1.00 25.08      S
ATOM   8622  OH2 WAT S  49     -23.958  70.422  39.996  1.00 30.28      S
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ATOM   8623  OH2 WAT S  50     -17.315  45.015   1.270  1.00 32.58      S
ATOM   8624  OH2 WAT S  51     -16.148  29.892   6.664  1.00 34.61      S
ATOM   8625  OH2 WAT S  52     -11.151  61.919   9.090  1.00 44.06      S
ATOM   8626  OH2 WAT S  53     -34.330  25.740  16.513  1.00 34.99      S
ATOM   8627  OH2 WAT S  54     -29.229  32.889  21.925  1.00 47.98      S
ATOM   8628  OH2 WAT S  55     -35.774  26.764 -11.110  1.00 31.04      S
ATOM   8629  OH2 WAT S  56     -19.812  40.177  36.235  1.00 37.13      S
ATOM   8630  OH2 WAT S  57     -34.228  23.231   4.679  1.00 39.13      S
ATOM   8631  OH2 WAT S  58     -31.220  31.192 -16.468  1.00 40.61      S
ATOM   8632  OH2 WAT S  59     -37.582   8.562 -16.302  1.00 35.79      S
ATOM   8633  OH2 WAT S  60     -32.959  51.215   3.377  1.00 50.87      S
ATOM   8634  OH2 WAT S  61     -29.875  21.534  -3.886  1.00 30.44      S
ATOM   8635  OH2 WAT S  62     -28.763  21.054 -22.130  1.00 38.50      S
ATOM   8636  OH2 WAT S  63     -33.454  47.002  45.696  1.00 38.96      S
ATOM   8637  C1  BI  I   1     -23.739 -16.906 -30.458  1.00 73.98
ATOM   8638  C2  BI  I   1     -25.117 -16.400 -30.371  1.00 72.07
ATOM   8639  C3  BI  I   1     -25.436 -15.233 -29.541  1.00 71.20
ATOM   8640  C4  BI  I   1     -24.371 -14.579 -28.802  1.00 70.76
ATOM   8641  C5  BI  I   1     -22.984 -15.091 -28.891  1.00 71.21
ATOM   8642  C6  BI  I   1     -22.679 -16.242 -29.717  1.00 73.03
ATOM   8643  N7  BI  I   1     -26.668 -14.551 -29.271  1.00 71.58
ATOM   8644  C8  BI  I   1     -26.392 -13.459 -28.361  1.00 70.70
ATOM   8645  C9  BI  I   1     -24.970 -13.467 -28.054  1.00 69.44
ATOM   8646  C10 BI  I   1     -24.197 -12.470 -27.105  1.00 67.07
ATOM   8647  C11 BI  I   1     -23.628 -13.222 -25.840  1.00 65.96
ATOM   8648  C12 BI  I   1     -22.828 -12.287 -24.890  1.00 64.75
ATOM   8649  C13 BI  I   1     -21.707 -11.507 -25.638  1.00 65.13
ATOM   8650  C14 BI  I   1     -22.199 -10.785 -26.934  1.00 65.29
ATOM   8651  C15 BI  I   1     -23.031 -11.706 -27.875  1.00 65.39
ATOM   8652  C16 BI  I   1     -27.406 -12.522 -27.821  1.00 71.34
ATOM   8653  C17 BI  I   1     -28.303 -11.695 -28.560  1.00 71.32
ATOM   8654  C18 BI  I   1     -29.054 -11.002 -27.622  1.00 72.66
ATOM   8655  O19 BI  I   1     -28.670 -11.354 -26.347  1.00 73.48
ATOM   8656  C20 BI  I   1     -27.665 -12.281 -26.478  1.00 71.70
ATOM   8657  C21 BI  I   1     -23.412 -18.124 -31.329  1.00 75.70
ATOM   8658  O22 BI  I   1     -22.310 -18.734 -31.391  1.00 74.92
ATOM   8659  N23 BI  I   1     -24.652 -18.437 -32.105  1.00 78.93
ATOM   8660  C24 BI  I   1     -28.034 -14.901 -29.841  1.00 73.02
ATOM   8661  C25 BI  I   1     -28.164 -14.813 -31.412  1.00 74.25
ATOM   8662  O26 BI  I   1     -27.199 -14.368 -32.098  1.00 73.63
ATOM   8663  N27 BI  I   1     -29.401 -15.250 -32.085  1.00 75.29
ATOM   8664  C28 BI  I   1     -30.594 -15.792 -31.289  1.00 75.78
ATOM   8665  C29 BI  I   1     -31.915 -15.064 -31.693  1.00 75.90
ATOM   8666  O30 BI  I   1     -32.085 -14.948 -33.258  1.00 77.06
ATOM   8667  C31 BI  I   1     -30.804 -14.442 -34.030  1.00 76.43
ATOM   8668  C32 BI  I   1     -29.508 -15.168 -33.585  1.00 76.39
ATOM   8669  S36 BI  I   1     -24.616 -19.616 -33.098  1.00 80.44
ATOM   8670  O37 BI  I   1     -23.948 -20.683 -32.577  1.00 79.05
ATOM   8671  O38 BI  I   1     -25.911 -19.961 -33.387  1.00 80.75
ATOM   8672  C39 BI  I   1     -23.777 -19.035 -34.606  1.00 81.96
ATOM   8673  C40 BI  I   1     -22.363 -18.791 -34.577  1.00 83.29
ATOM   8674  C41 BI  I   1     -21.683 -18.331 -35.747  1.00 84.19
ATOM   8675  C42 BI  I   1     -22.429 -18.114 -36.960  1.00 85.75
ATOM   8676  C43 BI  I   1     -23.852 -18.359 -36.996  1.00 84.71
ATOM   8677  C44 BI  I   1     -24.524 -18.818 -35.816  1.00 83.66
ATOM   8678  S   SO4 S 101     -11.156  50.084  23.370  1.00 95.46      S
ATOM   8679  O1  SO4 S 101     -10.227  51.190  23.052  1.00 95.17      S
ATOM   8680  O2  SO4 S 101     -11.904  50.403  24.599  1.00 95.39      S
ATOM   8681  O3  SO4 S 101     -12.095  49.887  22.248  1.00 95.49      S
ATOM   8682  O4  SO4 S 101     -10.388  48.844  23.588  1.00 96.50      S
ATOM   8683  S   SO4 S 102     -21.036  43.747  21.928  1.00 75.60      S
ATOM   8684  O1  SO4 S 102     -19.911  44.684  22.126  1.00 76.70      S
ATOM   8685  O2  SO4 S 102     -21.677  43.437  23.219  1.00 74.96      S
ATOM   8686  O3  SO4 S 102     -22.030  44.359  21.026  1.00 75.37      S
ATOM   8687  O4  SO4 S 102     -20.514  42.510  21.334  1.00 75.72      S
ATOM   8688  S   SO4 S 103     -38.819   3.029 -11.627  1.00105.23      S
ATOM   8689  O1  SO4 S 103     -38.074   4.238 -11.235  1.00105.17      S
ATOM   8690  O2  SO4 S 103     -39.565   2.525 -10.456  1.00105.44      S
ATOM   8691  O3  SO4 S 103     -39.764   3.347 -12.718  1.00104.81      S
ATOM   8692  O4  SO4 S 103     -37.868   2.000 -12.091  1.00104.98      S
ATOM   8693  S   SO4 S 104     -28.262   7.505  -8.594  1.00104.19      S
ATOM   8694  O1  SO4 S 104     -27.887   8.632  -9.470  1.00103.70      S
ATOM   8695  O2  SO4 S 104     -29.269   7.950  -7.615  1.00104.49      S
ATOM   8696  O3  SO4 S 104     -28.848   6.420  -9.408  1.00104.74      S
ATOM   8697  O4  SO4 S 104     -27.060   7.015  -7.884  1.00103.29      S
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END

FIGURE 6

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ATOM      1  CB  SER     1     -46.252  21.241  -6.638       23.68           C
ATOM      2  HB2 SER     1     -46.419  21.757  -7.548        0.00           H
ATOM      3  HB3 SER     1     -46.246  21.932  -5.836        0.00           H
ATOM      4  OG  SER     1     -44.990  20.596  -6.699       25.39           O
ATOM      5  HG  SER     1     -44.297  21.256  -6.837        0.00           H
ATOM      6  C   SER     1     -47.210  19.096  -7.447       25.25           C
ATOM      7  O   SER     1     -46.899  17.956  -7.087       27.50           O
ATOM      8  N   SER     1     -47.301  19.671  -5.029       22.50           N
ATOM      9  H1  SER     1     -47.410  20.424  -4.366        0.00           H
ATOM     10  H2  SER     1     -48.041  18.998  -4.898        0.00           H
ATOM     11  CA  SER     1     -47.365  20.219  -6.421       25.06           C
ATOM     12  HA  SER     1     -48.302  20.690  -6.572        0.00           H
ATOM     13  N   MET     2     -47.420  19.415  -8.722       23.80           N
ATOM     14  HN  MET     2     -47.680  20.360  -8.960        0.00           H
ATOM     15  CA  MET     2     -47.277  18.411  -9.771       23.17           C
ATOM     16  HA  MET     2     -47.665  17.486  -9.430        0.00           H
ATOM     17  CB  MET     2     -48.037  18.828 -11.034       21.26           C
ATOM     18  HB2 MET     2     -47.777  19.822 -11.290        0.00           H
ATOM     19  HB3 MET     2     -47.780  18.180 -11.831        0.00           H
ATOM     20  CG  MET     2     -49.558  18.792 -10.917       19.10           C
ATOM     21  HG2 MET     2     -49.874  19.505 -10.201        0.00           H
ATOM     22  HG3 MET     2     -49.990  19.020 -11.857        0.00           H
ATOM     23  SD  MET     2     -50.256  17.199 -10.401       21.33           S
ATOM     24  CE  MET     2     -49.990  16.182 -11.846       14.91           C
ATOM     25  HE1 MET     2     -50.496  16.606 -12.674        0.00           H
ATOM     26  HE2 MET     2     -48.953  16.130 -12.055        0.00           H
ATOM     27  HE3 MET     2     -50.363  15.207 -11.665        0.00           H
ATOM     28  C   MET     2     -45.810  18.178 -10.130       23.48           C
ATOM     29  O   MET     2     -45.031  19.117 -10.289       23.98           O
ATOM     30  N   SER     3     -45.436  16.915 -10.257       22.87           N
ATOM     31  HN  SER     3     -46.115  16.186 -10.096        0.00           H
ATOM     32  CA  SER     3     -44.075  16.570 -10.621       22.79           C
ATOM     33  HA  SER     3     -43.409  16.936  -9.883        0.00           H
ATOM     34  CB  SER     3     -43.947  15.050 -10.717       22.98           C
ATOM     35  HB2 SER     3     -42.971  14.798 -11.041        0.00           H
ATOM     36  HB3 SER     3     -44.126  14.620  -9.766        0.00           H
ATOM     37  OG  SER     3     -44.885  14.511 -11.642       23.51           O
ATOM     38  HG  SER     3     -44.782  13.550 -11.683        0.00           H
ATOM     39  C   SER     3     -43.719  17.204 -11.972       23.87           C
ATOM     40  O   SER     3     -42.605  17.700 -12.169       25.36           O
ATOM     41  N   TYR     4     -44.675  17.183 -12.899       23.53           N
ATOM     42  HN  TYR     4     -45.563  16.771 -12.655        0.00           H
ATOM     43  CA  TYR     4     -44.469  17.732 -14.232       23.38           C
ATOM     44  HA  TYR     4     -43.701  18.461 -14.199        0.00           H
ATOM     45  CB  TYR     4     -44.064  16.631 -15.210       25.93           C
ATOM     46  HB2 TYR     4     -44.771  15.844 -15.167        0.00           H
ATOM     47  HB3 TYR     4     -44.033  17.025 -16.192        0.00           H
ATOM     48  CG  TYR     4     -42.722  16.006 -14.965       26.96           C
ATOM     49  CD1 TYR     4     -41.561  16.626 -15.400       27.46           C
ATOM     50  HD1 TYR     4     -41.615  17.569 -15.917        0.00           H
ATOM     51  CE1 TYR     4     -40.322  16.046 -15.178       26.90           C
ATOM     52  HE1 TYR     4     -39.428  16.537 -15.523        0.00           H
ATOM     53  CD2 TYR     4     -42.612  14.787 -14.299       25.22           C
ATOM     54  HD2 TYR     4     -43.497  14.283 -13.949        0.00           H
ATOM     55  CE2 TYR     4     -41.382  14.204 -14.074       23.68           C
ATOM     56  HE2 TYR     4     -41.319  13.261 -13.558        0.00           H
ATOM     57  CZ  TYR     4     -40.243  14.839 -14.514       24.59           C
ATOM     58  OH  TYR     4     -39.015  14.277 -14.274       25.80           O
ATOM     59  HH  TYR     4     -38.323  14.850 -14.632        0.00           H
ATOM     60  C   TYR     4     -45.746  18.348 -14.766       23.45           C
ATOM     61  O   TYR     4     -46.842  18.026 -14.301       23.88           O
ATOM     62  N   THR     5     -45.577  19.221 -15.758       21.84           N
ATOM     63  HN  THR     5     -44.622  19.410 -16.022        0.00           H
ATOM     64  CA  THR     5     -46.667  19.887 -16.450       20.28           C
ATOM     65  HA  THR     5     -47.579  19.396 -16.228        0.00           H
ATOM     66  CB  THR     5     -46.818  21.361 -16.045       17.90           C
ATOM     67  HB  THR     5     -45.903  21.868 -16.211        0.00           H
ATOM     68  OG1 THR     5     -47.167  21.455 -14.660       14.79           O
ATOM     69  HG1 THR     5     -47.260  22.385 -14.413        0.00           H
ATOM     70  CG2 THR     5     -47.915  22.010 -16.878       15.45           C
ATOM     71 HG21 THR     5     -47.660  21.951 -17.904        0.00           H
ATOM     72 HG22 THR     5     -48.830  21.504 -16.712        0.00           H
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ATOM	73	HG23	THR	5	-48.017	23.026	-16.597	0.00	H
ATOM	74	C	THR	5	-46.260	19.847	-17.913	22.54	C
ATOM	75	O	THR	5	-45.149	20.256	-18.249	22.98	O
ATOM	76	N	TRP	6	-47.158	19.367	-18.775	23.48	N
ATOM	77	HN	TRP	6	-48.053	19.080	-18.407	0.00	H
ATOM	78	CA	TRP	6	-46.884	19.249	-20.207	22.07	C
ATOM	79	HA	TRP	6	-45.860	19.448	-20.388	0.00	H
ATOM	80	CB	TRP	6	-47.221	17.836	-20.657	21.29	C
ATOM	81	HB2	TRP	6	-48.269	17.692	-20.613	0.00	H
ATOM	82	HB3	TRP	6	-46.887	17.693	-21.652	0.00	H
ATOM	83	CG	TRP	6	-46.575	16.807	-19.799	22.80	C
ATOM	84	CD2	TRP	6	-45.175	16.515	-19.724	21.99	C
ATOM	85	CE2	TRP	6	-45.009	15.522	-18.737	20.81	C
ATOM	86	CE3	TRP	6	-44.044	17.002	-20.393	21.23	C
ATOM	87	HE3	TRP	6	-44.151	17.760	-21.150	0.00	H
ATOM	88	CD1	TRP	6	-47.184	16.000	-18.882	21.93	C
ATOM	89	HD1	TRP	6	-48.253	16.040	-18.755	0.00	H
ATOM	90	NE1	TRP	6	-46.252	15.226	-18.241	20.48	N
ATOM	91	HE1	TRP	6	-46.542	14.572	-17.530	0.00	H
ATOM	92	CZ2	TRP	6	-43.758	15.003	-18.399	19.87	C
ATOM	93	HZ2	TRP	6	-43.677	14.244	-17.639	0.00	H
ATOM	94	CZ3	TRP	6	-42.804	16.490	-20.059	21.71	C
ATOM	95	HZ3	TRP	6	-41.920	16.849	-20.559	0.00	H
ATOM	96	CH2	TRP	6	-42.671	15.497	-19.067	21.86	C
ATOM	97	HH2	TRP	6	-41.685	15.127	-18.839	0.00	H
ATOM	98	C	TRP	6	-47.655	20.249	-21.064	22.44	C
ATOM	99	O	TRP	6	-48.781	20.604	-20.736	24.31	O
ATOM	100	N	THR	7	-47.045	20.683	-22.166	22.20	N
ATOM	101	HN	THR	7	-46.118	20.329	-22.350	0.00	H
ATOM	102	CA	THR	7	-47.663	21.633	-23.092	23.11	C
ATOM	103	HA	THR	7	-48.446	22.148	-22.599	0.00	H
ATOM	104	CB	THR	7	-46.648	22.678	-23.609	21.59	C
ATOM	105	HB	THR	7	-47.158	23.418	-24.169	0.00	H
ATOM	106	OG1	THR	7	-45.697	22.031	-24.471	20.46	O
ATOM	107	HG1	THR	7	-45.061	22.683	-24.796	0.00	H
ATOM	108	CG2	THR	7	-45.931	23.347	-22.462	17.07	C
ATOM	109	HG21	THR	7	-46.636	23.836	-21.842	0.00	H
ATOM	110	HG22	THR	7	-45.410	22.618	-21.898	0.00	H
ATOM	111	HG23	THR	7	-45.243	24.057	-22.842	0.00	H
ATOM	112	C	THR	7	-48.216	20.916	-24.331	26.23	C
ATOM	113	O	THR	7	-48.843	21.538	-25.201	28.16	O
ATOM	114	N	GLY	8	-47.974	19.615	-24.421	27.43	N
ATOM	115	HN	GLY	8	-47.465	19.143	-23.688	0.00	H
ATOM	116	CA	GLY	8	-48.441	18.871	-25.573	29.43	C
ATOM	117	HA2	GLY	8	-48.787	17.920	-25.262	0.00	H
ATOM	118	HA3	GLY	8	-49.232	19.400	-26.038	0.00	H
ATOM	119	C	GLY	8	-47.322	18.678	-26.583	30.19	C
ATOM	120	O	GLY	8	-47.343	17.724	-27.361	30.13	O
ATOM	121	N	ALA	9	-46.351	19.588	-26.581	31.52	N
ATOM	122	HN	ALA	9	-46.409	20.359	-25.933	0.00	H
ATOM	123	CA	ALA	9	-45.216	19.486	-27.495	33.29	C
ATOM	124	HA	ALA	9	-45.566	19.491	-28.494	0.00	H
ATOM	125	CB	ALA	9	-44.264	20.658	-27.299	33.01	C
ATOM	126	HB1	ALA	9	-44.777	21.565	-27.488	0.00	H
ATOM	127	HB2	ALA	9	-43.904	20.658	-26.303	0.00	H
ATOM	128	HB3	ALA	9	-43.449	20.567	-27.969	0.00	H
ATOM	129	C	ALA	9	-44.504	18.164	-27.208	34.84	C
ATOM	130	O	ALA	9	-44.479	17.693	-26.068	33.96	O
ATOM	131	N	LEU	10	-43.901	17.582	-28.236	36.43	N
ATOM	132	HN	LEU	10	-43.889	18.045	-29.132	0.00	H
ATOM	133	CA	LEU	10	-43.262	16.290	-28.079	38.04	C
ATOM	134	HA	LEU	10	-43.749	15.746	-27.312	0.00	H
ATOM	135	CB	LEU	10	-43.354	15.513	-29.388	37.10	C
ATOM	136	HB2	LEU	10	-42.801	16.017	-30.137	0.00	H
ATOM	137	HB3	LEU	10	-42.957	14.541	-29.250	0.00	H
ATOM	138	CG	LEU	10	-44.746	15.305	-29.980	35.87	C
ATOM	139	HG	LEU	10	-45.153	16.241	-30.263	0.00	H
ATOM	140	CD1	LEU	10	-44.600	14.398	-31.200	33.63	C
ATOM	141	HD11	LEU	10	-43.963	14.860	-31.909	0.00	H
ATOM	142	HD12	LEU	10	-44.184	13.471	-30.903	0.00	H
ATOM	143	HD13	LEU	10	-45.552	14.234	-31.634	0.00	H
ATOM	144	CD2	LEU	10	-45.694	14.703	-28.942	33.10	C
ATOM	145	HD21	LEU	10	-45.317	13.767	-28.620	0.00	H
ATOM	146	HD22	LEU	10	-45.770	15.357	-28.112	0.00	H
ATOM	147	HD23	LEU	10	-46.651	14.568	-29.374	0.00	H

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ATOM    148  C   LEU    10     -41.834  16.206 -27.590      39.68           C
ATOM    149  O   LEU    10     -41.045  17.145 -27.689      39.51           O
ATOM    150  N   ILE    11     -41.533  15.037 -27.049      42.07           N
ATOM    151  HN  ILE    11     -42.278  14.360 -26.983       0.00           H
ATOM    152  CA  ILE    11     -40.213  14.708 -26.565      45.11           C
ATOM    153  HA  ILE    11     -39.744  15.583 -26.195       0.00           H
ATOM    154  CB  ILE    11     -40.305  13.671 -25.435      44.97           C
ATOM    155  HB  ILE    11     -40.935  12.875 -25.737       0.00           H
ATOM    156  CG2 ILE    11     -38.933  13.110 -25.104      45.15           C
ATOM    157 HG21 ILE    11     -38.526  12.643 -25.963       0.00           H
ATOM    158 HG22 ILE    11     -38.295  13.897 -24.794       0.00           H
ATOM    159 HG23 ILE    11     -39.021  12.399 -24.324       0.00           H
ATOM    160  CG1 ILE    11     -40.938  14.338 -24.214      43.81           C
ATOM    161 HG12 ILE    11     -40.292  15.095 -23.851       0.00           H
ATOM    162 HG13 ILE    11     -41.866  14.768 -24.488       0.00           H
ATOM    163  CD1 ILE    11     -41.206  13.409 -23.075      44.84           C
ATOM    164 HD11 ILE    11     -41.870  12.647 -23.390       0.00           H
ATOM    165 HD12 ILE    11     -40.296  12.974 -22.753       0.00           H
ATOM    166 HD13 ILE    11     -41.642  13.948 -22.275       0.00           H
ATOM    167  C   ILE    11     -39.628  14.108 -27.824      48.04           C
ATOM    168  O   ILE    11     -39.912  12.961 -28.174      46.13           O
ATOM    169  N   THR    12     -38.827  14.917 -28.507      52.66           N
ATOM    170  HN  THR    12     -38.639  15.828 -28.116       0.00           H
ATOM    171  CA  THR    12     -38.228  14.532 -29.776      57.14           C
ATOM    172  HA  THR    12     -38.818  13.779 -30.231       0.00           H
ATOM    173  CB  THR    12     -38.159  15.757 -30.698      56.47           C
ATOM    174  HB  THR    12     -37.635  15.504 -31.583       0.00           H
ATOM    175  OG1 THR    12     -37.473  16.819 -30.033      56.89           O
ATOM    176  HG1 THR    12     -37.431  17.590 -30.615       0.00           H
ATOM    177  CG2 THR    12     -39.571  16.226 -31.070      55.84           C
ATOM    178 HG21 THR    12     -40.082  15.445 -31.571       0.00           H
ATOM    179 HG22 THR    12     -40.100  16.486 -30.190       0.00           H
ATOM    180 HG23 THR    12     -39.506  17.071 -31.706       0.00           H
ATOM    181  C   THR    12     -36.857  13.820 -29.746      61.70           C
ATOM    182  O   THR    12     -36.089  13.958 -28.795      62.72           O
ATOM    183  N   PRO    13     -36.546  13.049 -30.809      66.15           N
ATOM    184  CD  PRO    13     -37.628  12.800 -31.769      66.95           C
ATOM    185  HD2 PRO    13     -38.561  12.996 -31.308       0.00           H
ATOM    186  HD3 PRO    13     -37.509  13.435 -32.608       0.00           H
ATOM    187  CA  PRO    13     -35.379  12.216 -31.162      69.56           C
ATOM    188  HA  PRO    13     -35.097  11.631 -30.326       0.00           H
ATOM    189  CB  PRO    13     -35.929  11.320 -32.276      69.01           C
ATOM    190  HB2 PRO    13     -35.640  11.709 -33.217       0.00           H
ATOM    191  HB3 PRO    13     -35.542  10.341 -32.165       0.00           H
ATOM    192  CG  PRO    13     -37.416  11.362 -32.083      67.51           C
ATOM    193  HG2 PRO    13     -37.897  11.051 -32.974       0.00           H
ATOM    194  HG3 PRO    13     -37.688  10.714 -31.291       0.00           H
ATOM    195  C   PRO    13     -34.066  12.876 -31.609      72.85           C
ATOM    196  O   PRO    13     -33.315  13.429 -30.798      73.19           O
ATOM    197  N   CYS    14     -33.809  12.741 -32.915      76.55           N
ATOM    198  HN  CYS    14     -34.522  12.228 -33.412       0.00           H
ATOM    199  CA  CYS    14     -32.637  13.253 -33.635      80.08           C
ATOM    200  HA  CYS    14     -32.951  13.725 -34.530       0.00           H
ATOM    201  CB  CYS    14     -31.921  14.345 -32.824      80.56           C
ATOM    202  HB2 CYS    14     -32.604  15.122 -32.598       0.00           H
ATOM    203  HB3 CYS    14     -31.549  13.929 -31.924       0.00           H
ATOM    204  SG  CYS    14     -30.508  15.104 -33.694      83.26           S
ATOM    205  HG  CYS    14     -29.989  15.976 -32.964       0.00           H
ATOM    206  C   CYS    14     -31.620  12.160 -34.026      81.54           C
ATOM    207  O   CYS    14     -30.530  12.477 -34.500      81.43           O
ATOM    208  N   ALA    15     -31.957  10.884 -33.835      83.75           N
ATOM    209  HN  ALA    15     -32.865  10.669 -33.452       0.00           H
ATOM    210  CA  ALA    15     -31.025   9.795 -34.175      85.61           C
ATOM    211  HA  ALA    15     -30.389  10.107 -34.962       0.00           H
ATOM    212  CB  ALA    15     -30.180   9.437 -32.957      84.97           C
ATOM    213  HB1 ALA    15     -29.628  10.286 -32.649       0.00           H
ATOM    214  HB2 ALA    15     -30.813   9.122 -32.169       0.00           H
ATOM    215  HB3 ALA    15     -29.513   8.654 -33.208       0.00           H
ATOM    216  C   ALA    15     -31.755   8.556 -34.676      86.89           C
ATOM    217  O   ALA    15     -31.143   7.526 -34.991      87.17           O
ATOM    218  N   ALA    16     -33.074   8.687 -34.743      88.12           N
ATOM    219  HN  ALA    16     -33.446   9.583 -34.466       0.00           H
ATOM    220  CA  ALA    16     -33.970   7.633 -35.182      89.15           C
ATOM    221  HA  ALA    16     -34.686   8.034 -35.851       0.00           H
ATOM    222  CB  ALA    16     -33.211   6.521 -35.895      89.34           C
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ATOM    223  HB1 ALA    16     -32.718    6.918  -36.744        0.00           H
ATOM    224  HB2 ALA    16     -32.496    6.102  -35.235        0.00           H
ATOM    225  HB3 ALA    16     -33.891    5.770  -36.202        0.00           H
ATOM    226  C   ALA    16     -34.688    7.085  -33.966       90.09           C
ATOM    227  O   ALA    16     -34.910    5.879  -33.842       90.43           O
ATOM    228  N   GLU    17     -35.033    7.981  -33.052       90.35           N
ATOM    229  HN  GLU    17     -34.787    8.950  -33.187        0.00           H
ATOM    230  CA  GLU    17     -35.759    7.576  -31.863       90.54           C
ATOM    231  HA  GLU    17     -35.349    6.674  -31.489        0.00           H
ATOM    232  CB  GLU    17     -35.654    8.657  -30.789       90.09           C
ATOM    233  HB2 GLU    17     -35.400    9.580  -31.241        0.00           H
ATOM    234  HB3 GLU    17     -36.584    8.752  -30.291        0.00           H
ATOM    235  CG  GLU    17     -34.620    8.409  -29.716       90.32           C
ATOM    236  HG2 GLU    17     -34.974    7.666  -29.050        0.00           H
ATOM    237  HG3 GLU    17     -33.718    8.081  -30.164        0.00           H
ATOM    238  CD  GLU    17     -34.325    9.672  -28.913       90.78           C
ATOM    239  OE1 GLU    17     -35.288   10.314  -28.434       91.95          O1-
ATOM    240  OE2 GLU    17     -33.134   10.028  -28.763       90.43           O
ATOM    241  C   GLU    17     -37.224    7.348  -32.259       91.03           C
ATOM    242  O   GLU    17     -38.078    8.157  -31.845       91.44           O
ATOM    243  OXT GLU    17     -37.503    6.374  -32.998       91.22          O1-
ATOM    244  CB  MET    36     -36.911  -11.655  -28.617       76.38           C
ATOM    245  HB2 MET    36     -35.985  -12.190  -28.861        0.00           H
ATOM    246  HB3 MET    36     -37.002  -11.686  -27.527        0.00           H
ATOM    247  CG  MET    36     -38.121  -12.363  -29.228       78.04           C
ATOM    248  HG2 MET    36     -39.048  -11.924  -28.846        0.00           H
ATOM    249  HG3 MET    36     -38.139  -12.240  -30.313        0.00           H
ATOM    250  SD  MET    36     -38.172  -14.173  -28.930       81.54           S
ATOM    251  CE  MET    36     -38.091  -14.190  -27.116       79.74           C
ATOM    252  HE1 MET    36     -37.096  -13.906  -26.771        0.00           H
ATOM    253  HE2 MET    36     -38.839  -13.517  -26.692        0.00           H
ATOM    254  HE3 MET    36     -38.297  -15.201  -26.760        0.00           H
ATOM    255  C   MET    36     -35.879   -9.386  -28.122       73.65           C
ATOM    256  O   MET    36     -35.934   -9.543  -26.905       73.17           O
ATOM    257  N   MET    36     -36.328  -10.136  -30.476       74.87           N
ATOM    258  H1  MET    36     -37.022  -10.584  -31.085        0.00           H
ATOM    259  H2  MET    36     -36.410   -9.164  -30.798        0.00           H
ATOM    260  CA  MET    36     -36.795  -10.192  -29.081       74.97           C
ATOM    261  HA  MET    36     -37.776   -9.711  -29.025        0.00           H
ATOM    262  N   VAL    37     -35.079   -8.435  -28.712       71.96           N
ATOM    263  HN  VAL    37     -35.068   -8.383  -29.729        0.00           H
ATOM    264  CA  VAL    37     -34.197   -7.540  -27.948       70.93           C
ATOM    265  HA  VAL    37     -34.483   -7.573  -26.902        0.00           H
ATOM    266  CB  VAL    37     -32.728   -8.000  -28.105       70.57           C
ATOM    267  HB  VAL    37     -32.505   -8.126  -29.171        0.00           H
ATOM    268  CG1 VAL    37     -31.729   -6.988  -27.550       70.35           C
ATOM    269 HG11 VAL    37     -31.783   -6.033  -28.078        0.00           H
ATOM    270 HG12 VAL    37     -31.902   -6.802  -26.487        0.00           H
ATOM    271 HG13 VAL    37     -30.705   -7.357  -27.667        0.00           H
ATOM    272  CG2 VAL    37     -32.494   -9.349  -27.418       69.89           C
ATOM    273 HG21 VAL    37     -32.763   -9.307  -26.357        0.00           H
ATOM    274 HG22 VAL    37     -33.080  -10.144  -27.887        0.00           H
ATOM    275 HG23 VAL    37     -31.442   -9.643  -27.481        0.00           H
ATOM    276  C   VAL    37     -34.403   -6.116  -28.490       70.82           C
ATOM    277  O   VAL    37     -34.165   -5.839  -29.669       70.37           O
ATOM    278  N   TYR    38     -34.969   -5.198  -27.607       69.95           N
ATOM    279  HN  TYR    38     -35.196   -5.494  -26.669        0.00           H
ATOM    280  CA  TYR    38     -35.339   -3.850  -28.062       67.47           C
ATOM    281  HA  TYR    38     -35.085   -3.740  -29.084        0.00           H
ATOM    282  CB  TYR    38     -36.849   -3.636  -27.890       67.34           C
ATOM    283  HB2 TYR    38     -37.126   -2.710  -28.323        0.00           H
ATOM    284  HB3 TYR    38     -37.374   -4.421  -28.369        0.00           H
ATOM    285  CG  TYR    38     -37.290   -3.611  -26.440       66.87           C
ATOM    286  CD1 TYR    38     -37.326   -4.782  -25.679       66.84           C
ATOM    287  HD1 TYR    38     -37.069   -5.726  -26.130        0.00           H
ATOM    288  CE1 TYR    38     -37.692   -4.756  -24.332       66.72           C
ATOM    289  HE1 TYR    38     -37.714   -5.670  -23.762        0.00           H
ATOM    290  CD2 TYR    38     -37.637   -2.407  -25.815       66.52           C
ATOM    291  HD2 TYR    38     -37.625   -1.487  -26.375        0.00           H
ATOM    292  CE2 TYR    38     -38.003   -2.371  -24.464       66.30           C
ATOM    293  HE2 TYR    38     -38.263   -1.434  -24.001        0.00           H
ATOM    294  CZ  TYR    38     -38.027   -3.551  -23.731       66.70           C
ATOM    295  OH  TYR    38     -38.372   -3.537  -22.398       66.38           O
ATOM    296  HH  TYR    38     -38.328   -4.436  -22.044        0.00           H
ATOM    297  C   TYR    38     -34.614   -2.691  -27.373       65.44           C
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ATOM    298  O   TYR    38     -34.145  -2.805 -26.238      63.71           O
ATOM    299  N   ALA    39     -34.548  -1.569 -28.082      64.00           N
ATOM    300  HN  ALA    39     -34.946  -1.583 -29.009       0.00           H
ATOM    301  CA  ALA    39     -33.931  -0.347 -27.570      63.10           C
ATOM    302  HA  ALA    39     -33.408  -0.564 -26.675       0.00           H
ATOM    303  CB  ALA    39     -32.952   0.220 -28.594      62.31           C
ATOM    304  HB1 ALA    39     -32.195  -0.494 -28.791       0.00           H
ATOM    305  HB2 ALA    39     -33.469   0.443 -29.491       0.00           H
ATOM    306  HB3 ALA    39     -32.513   1.104 -28.211       0.00           H
ATOM    307  C   ALA    39     -35.065   0.642 -27.324      62.16           C
ATOM    308  O   ALA    39     -35.943   0.804 -28.170      61.83           O
ATOM    309  N   THR    40     -35.064   1.292 -26.167      61.50           N
ATOM    310  HN  THR    40     -34.327   1.122 -25.499       0.00           H
ATOM    311  CA  THR    40     -36.122   2.248 -25.859      61.45           C
ATOM    312  HA  THR    40     -37.065   1.776 -25.960       0.00           H
ATOM    313  CB  THR    40     -35.986   2.776 -24.420      60.62           C
ATOM    314  HB  THR    40     -36.627   3.608 -24.287       0.00           H
ATOM    315  OG1 THR    40     -34.632   3.186 -24.190      60.30           O
ATOM    316  HG1 THR    40     -34.545   3.518 -23.286       0.00           H
ATOM    317  CG2 THR    40     -36.365   1.694 -23.421      58.74           C
ATOM    318 HG21 THR    40     -37.368   1.397 -23.586       0.00           H
ATOM    319 HG22 THR    40     -35.725   0.860 -23.544       0.00           H
ATOM    320 HG23 THR    40     -36.266   2.072 -22.437       0.00           H
ATOM    321  C   THR    40     -36.109   3.414 -26.848      61.91           C
ATOM    322  O   THR    40     -35.057   3.809 -27.348      61.79           O
ATOM    323  N   THR    41     -37.287   3.958 -27.132      62.64           N
ATOM    324  HN  THR    41     -38.109   3.598 -26.672       0.00           H
ATOM    325  CA  THR    41     -37.407   5.054 -28.087      62.94           C
ATOM    326  HA  THR    41     -36.460   5.507 -28.225       0.00           H
ATOM    327  CB  THR    41     -37.915   4.524 -29.438      62.78           C
ATOM    328  HB  THR    41     -37.118   4.059 -29.957       0.00           H
ATOM    329  OG1 THR    41     -38.405   5.615 -30.226      62.93           O
ATOM    330  HG1 THR    41     -38.724   5.281 -31.075       0.00           H
ATOM    331  CG2 THR    41     -39.033   3.503 -29.220      62.23           C
ATOM    332 HG21 THR    41     -38.664   2.693 -28.647       0.00           H
ATOM    333 HG22 THR    41     -39.836   3.963 -28.705       0.00           H
ATOM    334 HG23 THR    41     -39.373   3.147 -30.157       0.00           H
ATOM    335  C   THR    41     -38.345   6.160 -27.607      62.85           C
ATOM    336  O   THR    41     -39.154   5.950 -26.697      62.90           O
ATOM    337  N   SER    42     -38.241   7.332 -28.235      61.86           N
ATOM    338  HN  SER    42     -37.565   7.413 -28.980       0.00           H
ATOM    339  CA  SER    42     -39.072   8.482 -27.872      61.44           C
ATOM    340  HA  SER    42     -39.000   8.655 -26.830       0.00           H
ATOM    341  CB  SER    42     -38.601   9.733 -28.621      59.62           C
ATOM    342  HB2 SER    42     -39.158  10.572 -28.293       0.00           H
ATOM    343  HB3 SER    42     -37.573   9.894 -28.427       0.00           H
ATOM    344  OG  SER    42     -38.780   9.589 -30.013      59.08           O
ATOM    345  HG  SER    42     -38.476  10.390 -30.462       0.00           H
ATOM    346  C   SER    42     -40.563   8.255 -28.142      61.79           C
ATOM    347  O   SER    42     -41.420   9.004 -27.659      61.76           O
ATOM    348  N   ARG    43     -40.865   7.213 -28.909      61.44           N
ATOM    349  HN  ARG    43     -40.111   6.642 -29.261       0.00           H
ATOM    350  CA  ARG    43     -42.243   6.887 -29.245      60.59           C
ATOM    351  HA  ARG    43     -42.751   7.767 -29.544       0.00           H
ATOM    352  CB  ARG    43     -42.254   5.869 -30.395      61.88           C
ATOM    353  HB2 ARG    43     -41.782   4.975 -30.080       0.00           H
ATOM    354  HB3 ARG    43     -43.255   5.661 -30.672       0.00           H
ATOM    355  CG  ARG    43     -41.514   6.380 -31.643      63.82           C
ATOM    356  HG2 ARG    43     -41.825   7.369 -31.858       0.00           H
ATOM    357  HG3 ARG    43     -40.470   6.370 -31.464       0.00           H
ATOM    358  CD  ARG    43     -41.763   5.545 -32.904      65.47           C
ATOM    359  HD2 ARG    43     -42.682   5.027 -32.809       0.00           H
ATOM    360  HD3 ARG    43     -41.803   6.184 -33.748       0.00           H
ATOM    361  NE  ARG    43     -40.721   4.551 -33.153      66.79           N1+
ATOM    362  HE  ARG    43     -40.034   4.711 -33.874       0.00           H
ATOM    363  CZ  ARG    43     -40.591   3.408 -32.488      68.42           C
ATOM    364  NH1 ARG    43     -41.447   3.100 -31.519      69.56           N
ATOM    365 HH11 ARG    43     -41.347   2.232 -31.015       0.00           H
ATOM    366 HH12 ARG    43     -42.197   3.734 -31.288       0.00           H
ATOM    367  NH2 ARG    43     -39.600   2.573 -32.793      68.06           N
ATOM    368 HH21 ARG    43     -39.499   1.704 -32.290       0.00           H
ATOM    369 HH22 ARG    43     -38.950   2.809 -33.528       0.00           H
ATOM    370  C   ARG    43     -43.007   6.367 -28.017      59.47           C
ATOM    371  O   ARG    43     -44.220   6.575 -27.892      59.27           O
ATOM    372  N   SER    44     -42.289   5.718 -27.101      57.37           N
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ATOM    373  HN  SER    44     -41.301    5.594  -27.263        0.00           H
ATOM    374  CA  SER    44     -42.903    5.189  -25.880       54.99           C
ATOM    375  HA  SER    44     -43.935    5.023  -26.048        0.00           H
ATOM    376  CB  SER    44     -42.256    3.867  -25.466       55.14           C
ATOM    377  HB2 SER    44     -42.890    3.362  -24.785        0.00           H
ATOM    378  HB3 SER    44     -42.106    3.264  -26.323        0.00           H
ATOM    379  OG  SER    44     -41.001    4.093  -24.841       53.04           O
ATOM    380  HG  SER    44     -40.610    3.246  -24.588        0.00           H
ATOM    381  C   SER    44     -42.722    6.186  -24.740       53.66           C
ATOM    382  O   SER    44     -43.037    5.886  -23.583       52.44           O
ATOM    383  N   ALA    45     -42.193    7.362  -25.076       51.08           N
ATOM    384  HN  ALA    45     -41.953    7.513  -26.044        0.00           H
ATOM    385  CA  ALA    45     -41.959    8.414  -24.095       49.14           C
ATOM    386  HA  ALA    45     -41.359    8.036  -23.308        0.00           H
ATOM    387  CB  ALA    45     -41.244    9.584  -24.755       49.11           C
ATOM    388  HB1 ALA    45     -40.316    9.256  -25.145        0.00           H
ATOM    389  HB2 ALA    45     -41.842    9.965  -25.541        0.00           H
ATOM    390  HB3 ALA    45     -41.077   10.345  -24.038        0.00           H
ATOM    391  C   ALA    45     -43.274    8.879  -23.464       47.72           C
ATOM    392  O   ALA    45     -43.375    9.033  -22.243       47.20           O
ATOM    393  N   SER    46     -44.278    9.106  -24.305       45.50           N
ATOM    394  HN  SER    46     -44.118    8.977  -25.293        0.00           H
ATOM    395  CA  SER    46     -45.585    9.531  -23.830       42.96           C
ATOM    396  HA  SER    46     -45.534   10.539  -23.510        0.00           H
ATOM    397  CB  SER    46     -46.606    9.409  -24.959       42.58           C
ATOM    398  HB2 SER    46     -46.481   10.213  -25.637        0.00           H
ATOM    399  HB3 SER    46     -46.461    8.492  -25.469        0.00           H
ATOM    400  OG  SER    46     -47.928    9.443  -24.454       41.61           O
ATOM    401  HG  SER    46     -48.555    9.364  -25.186        0.00           H
ATOM    402  C   SER    46     -45.992    8.627  -22.679       42.28           C
ATOM    403  O   SER    46     -46.386    9.084  -21.609       41.64           O
ATOM    404  N   LEU    47     -45.869    7.330  -22.918       41.74           N
ATOM    405  HN  LEU    47     -45.513    7.056  -23.822        0.00           H
ATOM    406  CA  LEU    47     -46.222    6.321  -21.944       41.12           C
ATOM    407  HA  LEU    47     -47.268    6.341  -21.779        0.00           H
ATOM    408  CB  LEU    47     -45.811    4.954  -22.476       43.20           C
ATOM    409  HB2 LEU    47     -46.204    4.822  -23.450        0.00           H
ATOM    410  HB3 LEU    47     -44.754    4.892  -22.510        0.00           H
ATOM    411  CG  LEU    47     -46.285    3.763  -21.656       44.36           C
ATOM    412  HG  LEU    47     -45.770    3.744  -20.731        0.00           H
ATOM    413  CD1 LEU    47     -47.781    3.879  -21.398       45.20           C
ATOM    414 HD11 LEU    47     -47.979    4.773  -20.865        0.00           H
ATOM    415 HD12 LEU    47     -48.298    3.897  -22.322        0.00           H
ATOM    416 HD13 LEU    47     -48.106    3.048  -20.827        0.00           H
ATOM    417  CD2 LEU    47     -45.954    2.483  -22.405       46.57           C
ATOM    418 HD21 LEU    47     -46.443    2.487  -23.344        0.00           H
ATOM    419 HD22 LEU    47     -44.907    2.421  -22.552        0.00           H
ATOM    420 HD23 LEU    47     -46.281    1.649  -21.840        0.00           H
ATOM    421  C   LEU    47     -45.583    6.560  -20.580       41.00           C
ATOM    422  O   LEU    47     -46.238    6.400  -19.542       41.61           O
ATOM    423  N   ARG    48     -44.312    6.950  -20.589       39.05           N
ATOM    424  HN  ARG    48     -43.870    7.069  -21.488        0.00           H
ATOM    425  CA  ARG    48     -43.557    7.205  -19.365       38.35           C
ATOM    426  HA  ARG    48     -43.734    6.424  -18.672        0.00           H
ATOM    427  CB  ARG    48     -42.063    7.265  -19.713       38.23           C
ATOM    428  HB2 ARG    48     -41.663    6.284  -19.722        0.00           H
ATOM    429  HB3 ARG    48     -41.941    7.705  -20.668        0.00           H
ATOM    430  CG  ARG    48     -41.173    8.060  -18.780       37.97           C
ATOM    431  HG2 ARG    48     -40.187    8.083  -19.167        0.00           H
ATOM    432  HG3 ARG    48     -41.543    9.049  -18.697        0.00           H
ATOM    433  CD  ARG    48     -41.091    7.491  -17.372       39.99           C
ATOM    434  HD2 ARG    48     -40.359    8.020  -16.819        0.00           H
ATOM    435  HD3 ARG    48     -42.032    7.589  -16.896        0.00           H
ATOM    436  NE  ARG    48     -40.729    6.080  -17.343       41.95           N1+
ATOM    437  HE  ARG    48     -40.798    5.524  -18.182        0.00           H
ATOM    438  CZ  ARG    48     -40.296    5.430  -16.262       44.71           C
ATOM    439  NH1 ARG    48     -40.144    6.055  -15.092       42.96           N
ATOM    440 HH11 ARG    48     -39.815    5.544  -14.286        0.00           H
ATOM    441 HH12 ARG    48     -40.358    7.038  -15.014        0.00           H
ATOM    442  NH2 ARG    48     -40.047    4.127  -16.346       47.12           N
ATOM    443 HH21 ARG    48     -39.719    3.623  -15.536        0.00           H
ATOM    444 HH22 ARG    48     -40.186    3.642  -17.220        0.00           H
ATOM    445  C   ARG    48     -44.004    8.474  -18.623       38.43           C
ATOM    446  O   ARG    48     -44.150    8.473  -17.387       37.38           O
ATOM    447  N   GLN    49     -44.233    9.544  -19.378       36.66           N
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ATOM	448	HN	GLN	49	-44.107	9.465	-20.376	0.00	H
ATOM	449	CA	GLN	49	-44.657	10.810	-18.795	36.95	C
ATOM	450	HA	GLN	49	-43.896	11.178	-18.157	0.00	H
ATOM	451	CB	GLN	49	-44.922	11.826	-19.900	36.26	C
ATOM	452	HB2	GLN	49	-45.820	11.576	-20.402	0.00	H
ATOM	453	HB3	GLN	49	-45.012	12.793	-19.477	0.00	H
ATOM	454	CG	GLN	49	-43.834	11.898	-20.946	36.17	C
ATOM	455	HG2	GLN	49	-42.936	12.238	-20.499	0.00	H
ATOM	456	HG3	GLN	49	-43.679	10.936	-21.361	0.00	H
ATOM	457	CD	GLN	49	-44.178	12.840	-22.072	35.82	C
ATOM	458	OE1	GLN	49	-44.187	14.058	-21.897	35.28	O
ATOM	459	NE2	GLN	49	-44.476	12.280	-23.240	37.70	N
ATOM	460	HE21	GLN	49	-44.456	11.276	-23.338	0.00	H
ATOM	461	HE22	GLN	49	-44.723	12.859	-24.029	0.00	H
ATOM	462	C	GLN	49	-45.931	10.615	-17.979	37.70	C
ATOM	463	O	GLN	49	-46.189	11.332	-17.008	37.21	O
ATOM	464	N	LYS	50	-46.725	9.634	-18.383	37.26	N
ATOM	465	HN	LYS	50	-46.444	9.078	-19.177	0.00	H
ATOM	466	CA	LYS	50	-47.977	9.352	-17.708	38.38	C
ATOM	467	HA	LYS	50	-48.516	10.253	-17.573	0.00	H
ATOM	468	CB	LYS	50	-48.805	8.381	-18.559	39.51	C
ATOM	469	HB2	LYS	50	-48.705	8.635	-19.582	0.00	H
ATOM	470	HB3	LYS	50	-48.458	7.392	-18.405	0.00	H
ATOM	471	CG	LYS	50	-50.303	8.357	-18.269	38.95	C
ATOM	472	HG2	LYS	50	-50.629	9.332	-18.013	0.00	H
ATOM	473	HG3	LYS	50	-50.824	8.025	-19.129	0.00	H
ATOM	474	CD	LYS	50	-50.652	7.434	-17.127	39.43	C
ATOM	475	HD2	LYS	50	-50.186	6.495	-17.277	0.00	H
ATOM	476	HD3	LYS	50	-50.312	7.855	-16.217	0.00	H
ATOM	477	CE	LYS	50	-52.158	7.227	-17.041	40.33	C
ATOM	478	HE2	LYS	50	-52.623	8.133	-16.752	0.00	H
ATOM	479	HE3	LYS	50	-52.528	6.927	-17.987	0.00	H
ATOM	480	NZ	LYS	50	-52.512	6.172	-16.038	41.12	N1+
ATOM	481	HZ1	LYS	50	-52.085	5.298	-16.304	0.00	H
ATOM	482	HZ2	LYS	50	-52.175	6.447	-15.127	0.00	H
ATOM	483	HZ3	LYS	50	-53.514	6.061	-16.007	0.00	H
ATOM	484	C	LYS	50	-47.699	8.758	-16.340	38.93	C
ATOM	485	O	LYS	50	-48.416	9.033	-15.378	39.51	O
ATOM	486	N	LYS	51	-46.642	7.957	-16.248	39.27	N
ATOM	487	HN	LYS	51	-46.071	7.796	-17.064	0.00	H
ATOM	488	CA	LYS	51	-46.305	7.315	-14.985	38.26	C
ATOM	489	HA	LYS	51	-47.194	7.021	-14.490	0.00	H
ATOM	490	CB	LYS	51	-45.440	6.078	-15.216	39.35	C
ATOM	491	HB2	LYS	51	-45.909	5.446	-15.925	0.00	H
ATOM	492	HB3	LYS	51	-44.491	6.374	-15.581	0.00	H
ATOM	493	CG	LYS	51	-45.218	5.266	-13.940	41.97	C
ATOM	494	HG2	LYS	51	-44.908	5.912	-13.160	0.00	H
ATOM	495	HG3	LYS	51	-46.122	4.787	-13.664	0.00	H
ATOM	496	CD	LYS	51	-44.153	4.204	-14.134	44.95	C
ATOM	497	HD2	LYS	51	-44.418	3.583	-14.950	0.00	H
ATOM	498	HD3	LYS	51	-43.223	4.669	-14.332	0.00	H
ATOM	499	CE	LYS	51	-44.004	3.332	-12.889	46.29	C
ATOM	500	HE2	LYS	51	-43.827	3.948	-12.046	0.00	H
ATOM	501	HE3	LYS	51	-44.893	2.776	-12.739	0.00	H
ATOM	502	NZ	LYS	51	-42.861	2.360	-13.003	46.62	N1+
ATOM	503	HZ1	LYS	51	-43.015	1.751	-13.793	0.00	H
ATOM	504	HZ2	LYS	51	-41.999	2.868	-13.132	0.00	H
ATOM	505	HZ3	LYS	51	-42.803	1.809	-12.160	0.00	H
ATOM	506	C	LYS	51	-45.583	8.228	-14.018	37.15	C
ATOM	507	O	LYS	51	-45.754	8.108	-12.811	38.29	O
ATOM	508	N	VAL	52	-44.763	9.132	-14.538	35.50	N
ATOM	509	HN	VAL	52	-44.652	9.198	-15.539	0.00	H
ATOM	510	CA	VAL	52	-44.022	10.030	-13.662	33.88	C
ATOM	511	HA	VAL	52	-43.897	9.575	-12.714	0.00	H
ATOM	512	CB	VAL	52	-42.623	10.358	-14.234	32.97	C
ATOM	513	HB	VAL	52	-42.047	10.852	-13.496	0.00	H
ATOM	514	CG1	VAL	52	-41.898	9.075	-14.577	30.24	C
ATOM	515	HG11	VAL	52	-41.791	8.486	-13.704	0.00	H
ATOM	516	HG12	VAL	52	-42.455	8.537	-15.299	0.00	H
ATOM	517	HG13	VAL	52	-40.941	9.304	-14.968	0.00	H
ATOM	518	CG2	VAL	52	-42.748	11.258	-15.448	31.14	C
ATOM	519	HG21	VAL	52	-43.320	10.768	-16.193	0.00	H
ATOM	520	HG22	VAL	52	-43.228	12.160	-15.171	0.00	H
ATOM	521	HG23	VAL	52	-41.783	11.474	-15.828	0.00	H
ATOM	522	C	VAL	52	-44.743	11.340	-13.388	32.86	C

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ATOM    523  O   VAL    52     -44.241  12.181 -12.653       33.41           O
ATOM    524  N   THR    53     -45.921  11.517 -13.968       31.49           N
ATOM    525  HN  THR    53     -46.307  10.794 -14.557        0.00           H
ATOM    526  CA  THR    53     -46.659  12.754 -13.756       31.20           C
ATOM    527  HA  THR    53     -46.004  13.495 -13.378        0.00           H
ATOM    528  CB  THR    53     -47.284  13.276 -15.082       31.07           C
ATOM    529  HB  THR    53     -47.957  12.553 -15.464        0.00           H
ATOM    530  OG1 THR    53     -46.251  13.505 -16.048       29.61           O
ATOM    531  HG1 THR    53     -46.644  13.829 -16.870        0.00           H
ATOM    532  CG2 THR    53     -48.039  14.573 -14.841       27.60           C
ATOM    533 HG21 THR    53     -48.814  14.405 -14.139        0.00           H
ATOM    534 HG22 THR    53     -47.373  15.304 -14.464        0.00           H
ATOM    535 HG23 THR    53     -48.457  14.913 -15.753        0.00           H
ATOM    536  C   THR    53     -47.762  12.611 -12.710       30.92           C
ATOM    537  O   THR    53     -48.827  12.048 -12.972       31.76           O
ATOM    538  N   PHE    54     -47.501  13.133 -11.522       30.28           N
ATOM    539  HN  PHE    54     -46.608  13.577 -11.365        0.00           H
ATOM    540  CA  PHE    54     -48.479  13.073 -10.452       30.54           C
ATOM    541  HA  PHE    54     -49.446  13.245 -10.848        0.00           H
ATOM    542  CB  PHE    54     -48.445  11.693  -9.787       29.91           C
ATOM    543  HB2 PHE    54     -49.123  11.676  -8.974        0.00           H
ATOM    544  HB3 PHE    54     -48.722  10.954 -10.493        0.00           H
ATOM    545  CG  PHE    54     -47.098  11.304  -9.247       30.01           C
ATOM    546  CD1 PHE    54     -46.685  11.731  -7.996       30.41           C
ATOM    547  HD1 PHE    54     -47.326  12.362  -7.404        0.00           H
ATOM    548  CD2 PHE    54     -46.244  10.493  -9.992       31.37           C
ATOM    549  HD2 PHE    54     -46.542  10.152 -10.969        0.00           H
ATOM    550  CE1 PHE    54     -45.441  11.351  -7.490       31.08           C
ATOM    551  HE1 PHE    54     -45.131  11.687  -6.515        0.00           H
ATOM    552  CE2 PHE    54     -45.003  10.110  -9.498       29.95           C
ATOM    553  HE2 PHE    54     -44.358   9.482 -10.090        0.00           H
ATOM    554  CZ  PHE    54     -44.603  10.541  -8.242       30.74           C
ATOM    555  HZ  PHE    54     -43.644  10.248  -7.850        0.00           H
ATOM    556  C   PHE    54     -48.236  14.171  -9.426       30.76           C
ATOM    557  O   PHE    54     -47.271  14.928  -9.529       30.65           O
ATOM    558  N   ASP    55     -49.124  14.255  -8.442       31.19           N
ATOM    559  HN  ASP    55     -49.889  13.597  -8.436        0.00           H
ATOM    560  CA  ASP    55     -49.018  15.260  -7.389       29.85           C
ATOM    561  HA  ASP    55     -48.430  16.071  -7.733        0.00           H
ATOM    562  CB  ASP    55     -50.408  15.770  -7.013       29.64           C
ATOM    563  HB2 ASP    55     -50.966  15.955  -7.894        0.00           H
ATOM    564  HB3 ASP    55     -50.905  15.041  -6.427        0.00           H
ATOM    565  CG  ASP    55     -50.364  17.055  -6.214       30.60           C
ATOM    566  OD1 ASP    55     -49.253  17.541  -5.920       31.01           O
ATOM    567  OD2 ASP    55     -51.444  17.586  -5.881       30.97           O1-
ATOM    568  C   ASP    55     -48.354  14.675  -6.153       28.70           C
ATOM    569  O   ASP    55     -48.773  13.631  -5.657       26.99           O
ATOM    570  N   ARG    56     -47.303  15.336  -5.677       27.94           N
ATOM    571  HN  ARG    56     -46.983  16.160  -6.163        0.00           H
ATOM    572  CA  ARG    56     -46.620  14.889  -4.480       27.81           C
ATOM    573  HA  ARG    56     -46.680  13.834  -4.412        0.00           H
ATOM    574  CB  ARG    56     -45.146  15.285  -4.486       25.49           C
ATOM    575  HB2 ARG    56     -45.059  16.317  -4.706        0.00           H
ATOM    576  HB3 ARG    56     -44.724  15.090  -3.535        0.00           H
ATOM    577  CG  ARG    56     -44.289  14.562  -5.489       24.98           C
ATOM    578  HG2 ARG    56     -43.268  14.757  -5.287        0.00           H
ATOM    579  HG3 ARG    56     -44.469  13.521  -5.422        0.00           H
ATOM    580  CD  ARG    56     -44.604  15.022  -6.895       25.61           C
ATOM    581  HD2 ARG    56     -43.984  14.507  -7.582        0.00           H
ATOM    582  HD3 ARG    56     -45.620  14.818  -7.114        0.00           H
ATOM    583  NE  ARG    56     -44.386  16.454  -7.085       23.83           N1+
ATOM    584  HE  ARG    56     -45.175  17.080  -7.151        0.00           H
ATOM    585  CZ  ARG    56     -43.192  17.028  -7.183       23.65           C
ATOM    586  NH1 ARG    56     -42.085  16.294  -7.109       20.11           N
ATOM    587 HH11 ARG    56     -41.181  16.736  -7.184        0.00           H
ATOM    588 HH12 ARG    56     -42.149  15.296  -6.978        0.00           H
ATOM    589  NH2 ARG    56     -43.108  18.342  -7.364       22.84           N
ATOM    590 HH21 ARG    56     -42.204  18.784  -7.439        0.00           H
ATOM    591 HH22 ARG    56     -43.948  18.897  -7.426        0.00           H
ATOM    592  C   ARG    56     -47.321  15.636  -3.369       29.64           C
ATOM    593  O   ARG    56     -47.552  16.836  -3.492       30.86           O
ATOM    594  N   LEU    57     -47.674  14.931  -2.299       30.79           N
ATOM    595  HN  LEU    57     -47.470  13.943  -2.284        0.00           H
ATOM    596  CA  LEU    57     -48.342  15.554  -1.164       32.28           C
ATOM    597  HA  LEU    57     -48.267  16.607  -1.245        0.00           H
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ATOM	598	CB	LEU	57	-49.817	15.145	-1.158	35.02	C
ATOM	599	HB2	LEU	57	-50.164	15.062	-2.155	0.00	H
ATOM	600	HB3	LEU	57	-49.922	14.212	-0.669	0.00	H
ATOM	601	CG	LEU	57	-50.823	16.071	-0.464	38.41	C
ATOM	602	HG	LEU	57	-50.595	16.129	0.569	0.00	H
ATOM	603	CD1	LEU	57	-50.763	17.486	-1.069	38.28	C
ATOM	604	HD11	LEU	57	-49.789	17.882	-0.944	0.00	H
ATOM	605	HD12	LEU	57	-50.995	17.439	-2.101	0.00	H
ATOM	606	HD13	LEU	57	-51.464	18.110	-0.578	0.00	H
ATOM	607	CD2	LEU	57	-52.223	15.477	-0.617	38.23	C
ATOM	608	HD21	LEU	57	-52.461	15.394	-1.646	0.00	H
ATOM	609	HD22	LEU	57	-52.250	14.517	-0.170	0.00	H
ATOM	610	HD23	LEU	57	-52.928	16.108	-0.141	0.00	H
ATOM	611	C	LEU	57	-47.612	15.070	0.097	32.21	C
ATOM	612	O	LEU	57	-48.102	14.229	0.857	33.45	O
ATOM	613	N	GLN	58	-46.425	15.630	0.299	30.76	N
ATOM	614	HN	GLN	58	-46.155	16.337	-0.368	0.00	H
ATOM	615	CA	GLN	58	-45.530	15.283	1.397	29.11	C
ATOM	616	HA	GLN	58	-45.560	14.237	1.560	0.00	H
ATOM	617	CB	GLN	58	-44.131	15.725	0.986	27.37	C
ATOM	618	HB2	GLN	58	-43.891	15.307	0.043	0.00	H
ATOM	619	HB3	GLN	58	-44.099	16.782	0.922	0.00	H
ATOM	620	CG	GLN	58	-42.999	15.347	1.888	26.33	C
ATOM	621	HG2	GLN	58	-43.133	15.805	2.833	0.00	H
ATOM	622	HG3	GLN	58	-42.977	14.295	2.005	0.00	H
ATOM	623	CD	GLN	58	-41.675	15.801	1.309	26.95	C
ATOM	624	OE1	GLN	58	-41.526	16.953	0.898	25.02	O
ATOM	625	NE2	GLN	58	-40.707	14.901	1.270	27.17	N
ATOM	626	HE21	GLN	58	-40.871	13.968	1.617	0.00	H
ATOM	627	HE22	GLN	58	-39.804	15.147	0.893	0.00	H
ATOM	628	C	GLN	58	-45.895	15.845	2.775	29.50	C
ATOM	629	O	GLN	58	-46.380	16.968	2.893	28.89	O
ATOM	630	N	VAL	59	-45.659	15.046	3.815	30.63	N
ATOM	631	HN	VAL	59	-45.270	14.136	3.617	0.00	H
ATOM	632	CA	VAL	59	-45.941	15.439	5.203	31.12	C
ATOM	633	HA	VAL	59	-46.014	16.494	5.263	0.00	H
ATOM	634	CB	VAL	59	-47.279	14.827	5.724	31.62	C
ATOM	635	HB	VAL	59	-47.214	13.770	5.707	0.00	H
ATOM	636	CG1	VAL	59	-47.507	15.258	7.168	27.78	C
ATOM	637	HG11	VAL	59	-46.705	14.916	7.769	0.00	H
ATOM	638	HG12	VAL	59	-47.560	16.315	7.217	0.00	H
ATOM	639	HG13	VAL	59	-48.415	14.843	7.521	0.00	H
ATOM	640	CG2	VAL	59	-48.465	15.264	4.841	30.48	C
ATOM	641	HG21	VAL	59	-48.545	16.320	4.855	0.00	H
ATOM	642	HG22	VAL	59	-48.305	14.936	3.847	0.00	H
ATOM	643	HG23	VAL	59	-49.359	14.837	5.214	0.00	H
ATOM	644	C	VAL	59	-44.822	14.937	6.119	30.90	C
ATOM	645	O	VAL	59	-44.660	13.736	6.280	31.76	O
ATOM	646	N	LEU	60	-44.077	15.848	6.737	31.05	N
ATOM	647	HN	LEU	60	-44.288	16.824	6.592	0.00	H
ATOM	648	CA	LEU	60	-42.971	15.461	7.612	32.69	C
ATOM	649	HA	LEU	60	-42.676	14.469	7.390	0.00	H
ATOM	650	CB	LEU	60	-41.788	16.405	7.391	32.81	C
ATOM	651	HB2	LEU	60	-41.999	17.345	7.831	0.00	H
ATOM	652	HB3	LEU	60	-40.920	15.994	7.837	0.00	H
ATOM	653	CG	LEU	60	-41.449	16.669	5.925	33.96	C
ATOM	654	HG	LEU	60	-42.344	16.792	5.372	0.00	H
ATOM	655	CD1	LEU	60	-40.608	17.934	5.809	32.41	C
ATOM	656	HD11	LEU	60	-41.152	18.756	6.196	0.00	H
ATOM	657	HD12	LEU	60	-39.711	17.813	6.359	0.00	H
ATOM	658	HD13	LEU	60	-40.376	18.112	4.791	0.00	H
ATOM	659	CD2	LEU	60	-40.743	15.458	5.343	33.11	C
ATOM	660	HD21	LEU	60	-39.851	15.275	5.884	0.00	H
ATOM	661	HD22	LEU	60	-41.377	14.613	5.412	0.00	H
ATOM	662	HD23	LEU	60	-40.508	15.641	4.327	0.00	H
ATOM	663	C	LEU	60	-43.312	15.438	9.103	33.75	C
ATOM	664	O	LEU	60	-44.287	16.050	9.531	34.37	O
ATOM	665	N	ASP	61	-42.491	14.730	9.883	34.83	N
ATOM	666	HN	ASP	61	-41.718	14.264	9.432	0.00	H
ATOM	667	CA	ASP	61	-42.672	14.613	11.331	34.33	C
ATOM	668	HA	ASP	61	-43.330	15.372	11.667	0.00	H
ATOM	669	CB	ASP	61	-43.263	13.251	11.697	34.68	C
ATOM	670	HB2	ASP	61	-43.189	13.104	12.743	0.00	H
ATOM	671	HB3	ASP	61	-44.281	13.218	11.407	0.00	H
ATOM	672	CG	ASP	61	-42.550	12.098	11.016	34.76	C

ATOM	673	OD1	ASP	61	-41.306	12.087	10.982	36.22	O
ATOM	674	OD2	ASP	61	-43.242	11.188	10.523	36.40	O1-
ATOM	675	C	ASP	61	-41.367	14.807	12.099	35.65	C
ATOM	676	O	ASP	61	-40.356	15.242	11.539	35.62	O
ATOM	677	N	ASP	62	-41.387	14.469	13.386	36.10	N
ATOM	678	HN	ASP	62	-42.231	14.090	13.789	0.00	H
ATOM	679	CA	ASP	62	-40.202	14.643	14.211	35.88	C
ATOM	680	HA	ASP	62	-39.761	15.583	14.002	0.00	H
ATOM	681	CB	ASP	62	-40.573	14.585	15.689	37.45	C
ATOM	682	HB2	ASP	62	-41.229	13.770	15.857	0.00	H
ATOM	683	HB3	ASP	62	-39.696	14.457	16.268	0.00	H
ATOM	684	CG	ASP	62	-41.263	15.846	16.155	39.44	C
ATOM	685	OD1	ASP	62	-40.739	16.942	15.872	40.87	O
ATOM	686	OD2	ASP	62	-42.322	15.748	16.808	41.78	O1-
ATOM	687	C	ASP	62	-39.065	13.676	13.930	35.08	C
ATOM	688	O	ASP	62	-37.906	13.994	14.196	34.94	O
ATOM	689	N	HIS	63	-39.382	12.498	13.405	33.62	N
ATOM	690	HN	HIS	63	-40.348	12.274	13.219	0.00	H
ATOM	691	CA	HIS	63	-38.339	11.532	13.098	32.66	C
ATOM	692	HA	HIS	63	-37.705	11.418	13.939	0.00	H
ATOM	693	CB	HIS	63	-38.945	10.179	12.751	34.03	C
ATOM	694	HB2	HIS	63	-39.809	10.321	12.155	0.00	H
ATOM	695	HB3	HIS	63	-38.237	9.602	12.214	0.00	H
ATOM	696	CG	HIS	63	-39.354	9.384	13.948	37.06	C
ATOM	697	CD2	HIS	63	-40.543	8.834	14.293	37.58	C
ATOM	698	HD2	HIS	63	-41.398	8.951	13.648	0.00	H
ATOM	699	ND1	HIS	63	-38.475	9.065	14.961	37.55	N1+
ATOM	700	HD1	HIS	63	-37.517	9.378	14.915	0.00	H
ATOM	701	CE1	HIS	63	-39.105	8.352	15.876	38.05	C
ATOM	702	HE1	HIS	63	-38.576	8.008	16.749	0.00	H
ATOM	703	NE2	HIS	63	-40.361	8.198	15.495	37.25	N
ATOM	704	HE2	HIS	63	-41.132	7.717	15.933	0.00	H
ATOM	705	C	HIS	63	-37.540	12.066	11.928	32.32	C
ATOM	706	O	HIS	63	-36.311	11.970	11.900	30.95	O
ATOM	707	N	TYR	64	-38.256	12.637	10.966	31.67	N
ATOM	708	HN	TYR	64	-39.259	12.658	11.074	0.00	H
ATOM	709	CA	TYR	64	-37.641	13.219	9.789	31.25	C
ATOM	710	HA	TYR	64	-37.073	12.480	9.286	0.00	H
ATOM	711	CB	TYR	64	-38.721	13.754	8.844	31.92	C
ATOM	712	HB2	TYR	64	-39.355	12.960	8.547	0.00	H
ATOM	713	HB3	TYR	64	-39.291	14.494	9.343	0.00	H
ATOM	714	CG	TYR	64	-38.195	14.393	7.569	32.70	C
ATOM	715	CD1	TYR	64	-37.919	13.626	6.439	31.62	C
ATOM	716	HD1	TYR	64	-38.079	12.561	6.459	0.00	H
ATOM	717	CE1	TYR	64	-37.435	14.214	5.273	31.89	C
ATOM	718	HE1	TYR	64	-37.228	13.605	4.409	0.00	H
ATOM	719	CD2	TYR	64	-37.968	15.770	7.497	32.60	C
ATOM	720	HD2	TYR	64	-38.168	16.394	8.352	0.00	H
ATOM	721	CE2	TYR	64	-37.482	16.367	6.330	31.73	C
ATOM	722	HE2	TYR	64	-37.315	17.430	6.299	0.00	H
ATOM	723	CZ	TYR	64	-37.220	15.587	5.226	31.56	C
ATOM	724	OH	TYR	64	-36.753	16.172	4.075	31.72	O
ATOM	725	HH	TYR	64	-36.627	15.494	3.397	0.00	H
ATOM	726	C	TYR	64	-36.761	14.368	10.262	31.03	C
ATOM	727	O	TYR	64	-35.573	14.422	9.960	31.87	O
ATOM	728	N	ARG	65	-37.351	15.282	11.022	30.80	N
ATOM	729	HN	ARG	65	-38.326	15.173	11.260	0.00	H
ATOM	730	CA	ARG	65	-36.608	16.431	11.511	31.18	C
ATOM	731	HA	ARG	65	-36.145	16.925	10.696	0.00	H
ATOM	732	CB	ARG	65	-37.553	17.410	12.221	31.44	C
ATOM	733	HB2	ARG	65	-38.192	16.874	12.873	0.00	H
ATOM	734	HB3	ARG	65	-36.984	18.108	12.779	0.00	H
ATOM	735	CG	ARG	65	-38.434	18.198	11.249	32.81	C
ATOM	736	HG2	ARG	65	-37.821	18.721	10.562	0.00	H
ATOM	737	HG3	ARG	65	-39.064	17.529	10.722	0.00	H
ATOM	738	CD	ARG	65	-39.309	19.207	11.969	36.41	C
ATOM	739	HD2	ARG	65	-38.709	19.802	12.607	0.00	H
ATOM	740	HD3	ARG	65	-39.791	19.827	11.258	0.00	H
ATOM	741	NE	ARG	65	-40.341	18.563	12.785	37.40	N1+
ATOM	742	HE	ARG	65	-40.137	18.293	13.736	0.00	H
ATOM	743	CZ	ARG	65	-41.575	18.291	12.367	36.96	C
ATOM	744	NH1	ARG	65	-41.950	18.608	11.132	35.51	N
ATOM	745	HH11	ARG	65	-42.887	18.400	10.820	0.00	H
ATOM	746	HH12	ARG	65	-41.298	19.057	10.506	0.00	H
ATOM	747	NH2	ARG	65	-42.433	17.697	13.189	36.42	N

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ATOM    748 HH21 ARG    65     -43.370  17.489  12.876   0.00          H
ATOM    749 HH22 ARG    65     -42.148  17.454  14.126   0.00          H
ATOM    750  C   ARG    65     -35.474  16.001  12.420  30.65          C
ATOM    751  O   ARG    65     -34.445  16.668  12.509  32.22          O
ATOM    752  N   ASP    66     -35.656  14.871  13.082  29.93          N
ATOM    753  HN  ASP    66     -36.523  14.370  12.957   0.00          H
ATOM    754  CA  ASP    66     -34.638  14.348  13.974  30.36          C
ATOM    755  HA  ASP    66     -34.324  15.112  14.637   0.00          H
ATOM    756  CB  ASP    66     -35.208  13.185  14.776  32.50          C
ATOM    757 HB2 ASP    66     -36.024  12.761  14.251   0.00          H
ATOM    758 HB3 ASP    66     -34.458  12.451  14.915   0.00          H
ATOM    759  CG  ASP    66     -35.701  13.600  16.134  33.23          C
ATOM    760 OD1 ASP    66     -36.196  14.740  16.261  32.66          O
ATOM    761 OD2 ASP    66     -35.600  12.768  17.066  35.13          O1-
ATOM    762  C   ASP    66     -33.405  13.869  13.213  30.24          C
ATOM    763  O   ASP    66     -32.275  14.188  13.592  30.89          O
ATOM    764  N   VAL    67     -33.625  13.099  12.147  28.50          N
ATOM    765  HN  VAL    67     -34.580  12.895  11.894   0.00          H
ATOM    766  CA  VAL    67     -32.525  12.554  11.351  25.20          C
ATOM    767  HA  VAL    67     -31.811  12.108  11.994   0.00          H
ATOM    768  CB  VAL    67     -33.034  11.473  10.348  24.83          C
ATOM    769  HB  VAL    67     -33.760  11.901   9.706   0.00          H
ATOM    770 CG1 VAL    67     -31.891  10.970   9.484  21.01          C
ATOM    771 HG11 VAL    67     -31.478  11.779   8.939   0.00          H
ATOM    772 HG12 VAL    67     -31.144  10.543  10.101   0.00          H
ATOM    773 HG13 VAL    67     -32.254  10.238   8.810   0.00          H
ATOM    774 CG2 VAL    67     -33.661  10.310  11.114  21.64          C
ATOM    775 HG21 VAL    67     -32.937   9.879  11.756   0.00          H
ATOM    776 HG22 VAL    67     -34.476  10.665  11.689   0.00          H
ATOM    777 HG23 VAL    67     -34.004   9.580  10.428   0.00          H
ATOM    778  C   VAL    67     -31.775  13.635  10.593  23.91          C
ATOM    779  O   VAL    67     -30.539  13.615  10.535  21.45          O
ATOM    780  N   LEU    68     -32.524  14.577  10.021  23.61          N
ATOM    781  HN  LEU    68     -33.527  14.523  10.121   0.00          H
ATOM    782  CA  LEU    68     -31.922  15.673   9.261  23.30          C
ATOM    783  HA  LEU    68     -31.430  15.283   8.408   0.00          H
ATOM    784  CB  LEU    68     -32.992  16.667   8.803  20.46          C
ATOM    785 HB2 LEU    68     -33.714  16.162   8.216   0.00          H
ATOM    786 HB3 LEU    68     -33.462  17.095   9.650   0.00          H
ATOM    787  CG  LEU    68     -32.598  17.879   7.946  17.31          C
ATOM    788  HG  LEU    68     -32.044  18.563   8.535   0.00          H
ATOM    789 CD1 LEU    68     -31.750  17.482   6.762  17.18          C
ATOM    790 HD11 LEU    68     -30.863  17.016   7.104   0.00          H
ATOM    791 HD12 LEU    68     -32.291  16.807   6.151   0.00          H
ATOM    792 HD13 LEU    68     -31.502  18.345   6.200   0.00          H
ATOM    793 CD2 LEU    68     -33.857  18.547   7.467  15.82          C
ATOM    794 HD21 LEU    68     -34.422  17.862   6.890   0.00          H
ATOM    795 HD22 LEU    68     -34.429  18.862   8.301   0.00          H
ATOM    796 HD23 LEU    68     -33.607  19.387   6.873   0.00          H
ATOM    797  C   LEU    68     -30.890  16.373  10.125  24.13          C
ATOM    798  O   LEU    68     -29.733  16.529   9.716  25.85          O
ATOM    799  N   LYS    69     -31.293  16.773  11.326  22.91          N
ATOM    800  HN  LYS    69     -32.248  16.620  11.612   0.00          H
ATOM    801  CA  LYS    69     -30.359  17.431  12.229  24.90          C
ATOM    802  HA  LYS    69     -30.043  18.348  11.804   0.00          H
ATOM    803  CB  LYS    69     -31.033  17.708  13.574  25.39          C
ATOM    804 HB2 LYS    69     -31.431  16.806  13.962   0.00          H
ATOM    805 HB3 LYS    69     -30.320  18.099  14.252   0.00          H
ATOM    806  CG  LYS    69     -32.164  18.698  13.493  25.72          C
ATOM    807 HG2 LYS    69     -31.795  19.629  13.148   0.00          H
ATOM    808 HG3 LYS    69     -32.900  18.339  12.821   0.00          H
ATOM    809  CD  LYS    69     -32.792  18.894  14.842  28.10          C
ATOM    810 HD2 LYS    69     -33.210  17.979  15.173   0.00          H
ATOM    811 HD3 LYS    69     -32.055  19.215  15.531   0.00          H
ATOM    812  CE  LYS    69     -33.891  19.939  14.783  30.95          C
ATOM    813 HE2 LYS    69     -33.495  20.847  14.408   0.00          H
ATOM    814 HE3 LYS    69     -34.665  19.601  14.145   0.00          H
ATOM    815  NZ  LYS    69     -34.476  20.203  16.133  32.44          N1+
ATOM    816 HZ1 LYS    69     -34.869  19.350  16.502   0.00          H
ATOM    817 HZ2 LYS    69     -33.753  20.537  16.753   0.00          H
ATOM    818 HZ3 LYS    69     -35.201  20.901  16.055   0.00          H
ATOM    819  C   LYS    69     -29.090  16.594  12.444  24.31          C
ATOM    820  O   LYS    69     -27.986  17.114  12.453  23.27          O
ATOM    821  N   GLU    70     -29.252  15.289  12.611  26.68          N
ATOM    822  HN  GLU    70     -30.186  14.908  12.588   0.00          H
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ATOM	823	CA	GLU	70	-28.108	14.405	12.826	26.82	C
ATOM	824	HA	GLU	70	-27.532	14.764	13.639	0.00	H
ATOM	825	CB	GLU	70	-28.605	12.990	13.139	27.21	C
ATOM	826	HB2	GLU	70	-29.366	12.723	12.452	0.00	H
ATOM	827	HB3	GLU	70	-27.800	12.307	13.057	0.00	H
ATOM	828	CG	GLU	70	-29.186	12.848	14.545	29.10	C
ATOM	829	HG2	GLU	70	-28.402	12.879	15.256	0.00	H
ATOM	830	HG3	GLU	70	-29.862	13.642	14.730	0.00	H
ATOM	831	CD	GLU	70	-29.945	11.539	14.752	34.68	C
ATOM	832	OE1	GLU	70	-29.461	10.473	14.302	34.64	O1-
ATOM	833	OE2	GLU	70	-31.032	11.576	15.380	37.74	O
ATOM	834	C	GLU	70	-27.223	14.412	11.591	26.18	C
ATOM	835	O	GLU	70	-26.003	14.568	11.674	24.91	O
ATOM	836	N	MET	71	-27.851	14.261	10.436	26.47	N
ATOM	837	HN	MET	71	-28.853	14.144	10.422	0.00	H
ATOM	838	CA	MET	71	-27.104	14.263	9.194	26.96	C
ATOM	839	HA	MET	71	-26.395	13.477	9.207	0.00	H
ATOM	840	CB	MET	71	-28.058	14.064	8.027	28.04	C
ATOM	841	HB2	MET	71	-28.834	14.783	8.079	0.00	H
ATOM	842	HB3	MET	71	-27.530	14.179	7.116	0.00	H
ATOM	843	CG	MET	71	-28.717	12.708	7.985	25.80	C
ATOM	844	HG2	MET	71	-27.983	11.964	7.812	0.00	H
ATOM	845	HG3	MET	71	-29.198	12.521	8.909	0.00	H
ATOM	846	SD	MET	71	-29.907	12.740	6.651	29.64	S
ATOM	847	CE	MET	71	-28.969	12.076	5.298	26.00	C
ATOM	848	HE1	MET	71	-28.127	12.692	5.116	0.00	H
ATOM	849	HE2	MET	71	-28.645	11.097	5.540	0.00	H
ATOM	850	HE3	MET	71	-29.576	12.043	4.431	0.00	H
ATOM	851	C	MET	71	-26.334	15.572	9.025	25.88	C
ATOM	852	O	MET	71	-25.175	15.570	8.614	25.19	O
ATOM	853	N	LYS	72	-26.987	16.685	9.351	24.73	N
ATOM	854	HN	LYS	72	-27.934	16.594	9.688	0.00	H
ATOM	855	CA	LYS	72	-26.376	18.009	9.234	23.10	C
ATOM	856	HA	LYS	72	-26.017	18.146	8.247	0.00	H
ATOM	857	CB	LYS	72	-27.413	19.092	9.550	19.09	C
ATOM	858	HB2	LYS	72	-27.803	18.934	10.522	0.00	H
ATOM	859	HB3	LYS	72	-26.953	20.045	9.505	0.00	H
ATOM	860	CG	LYS	72	-28.582	19.120	8.603	17.45	C
ATOM	861	HG2	LYS	72	-28.228	19.188	7.607	0.00	H
ATOM	862	HG3	LYS	72	-29.149	18.233	8.716	0.00	H
ATOM	863	CD	LYS	72	-29.502	20.312	8.866	15.87	C
ATOM	864	HD2	LYS	72	-30.402	20.190	8.322	0.00	H
ATOM	865	HD3	LYS	72	-29.720	20.368	9.901	0.00	H
ATOM	866	CE	LYS	72	-28.870	21.614	8.446	13.81	C
ATOM	867	HE2	LYS	72	-27.943	21.733	8.943	0.00	H
ATOM	868	HE3	LYS	72	-28.711	21.607	7.399	0.00	H
ATOM	869	NZ	LYS	72	-29.725	22.773	8.777	12.83	N1+
ATOM	870	HZ1	LYS	72	-30.611	22.684	8.302	0.00	H
ATOM	871	HZ2	LYS	72	-29.879	22.803	9.774	0.00	H
ATOM	872	HZ3	LYS	72	-29.269	23.623	8.481	0.00	H
ATOM	873	C	LYS	72	-25.138	18.221	10.126	22.74	C
ATOM	874	O	LYS	72	-24.137	18.770	9.680	20.94	O
ATOM	875	N	ALA	73	-25.211	17.800	11.386	23.48	N
ATOM	876	HN	ALA	73	-26.059	17.354	11.702	0.00	H
ATOM	877	CA	ALA	73	-24.092	17.974	12.305	24.20	C
ATOM	878	HA	ALA	73	-23.889	19.007	12.423	0.00	H
ATOM	879	CB	ALA	73	-24.429	17.379	13.650	21.16	C
ATOM	880	HB1	ALA	73	-25.283	17.864	14.046	0.00	H
ATOM	881	HB2	ALA	73	-24.630	16.345	13.538	0.00	H
ATOM	882	HB3	ALA	73	-23.611	17.511	14.309	0.00	H
ATOM	883	C	ALA	73	-22.842	17.315	11.731	26.33	C
ATOM	884	O	ALA	73	-21.727	17.812	11.912	27.33	O
ATOM	885	N	LYS	74	-23.034	16.197	11.033	27.26	N
ATOM	886	HN	LYS	74	-23.976	15.848	10.937	0.00	H
ATOM	887	CA	LYS	74	-21.926	15.481	10.416	27.24	C
ATOM	888	HA	LYS	74	-21.127	15.405	11.107	0.00	H
ATOM	889	CB	LYS	74	-22.346	14.080	10.000	29.34	C
ATOM	890	HB2	LYS	74	-23.299	14.119	9.539	0.00	H
ATOM	891	HB3	LYS	74	-21.639	13.688	9.316	0.00	H
ATOM	892	CG	LYS	74	-22.459	13.066	11.116	32.45	C
ATOM	893	HG2	LYS	74	-21.529	12.986	11.616	0.00	H
ATOM	894	HG3	LYS	74	-23.203	13.378	11.802	0.00	H
ATOM	895	CD	LYS	74	-22.841	11.734	10.488	38.25	C
ATOM	896	HD2	LYS	74	-23.818	11.801	10.086	0.00	H
ATOM	897	HD3	LYS	74	-22.157	11.499	9.715	0.00	H

ATOM	898	CE	LYS	74	-22.838	10.561	11.454	40.62	C
ATOM	899	HE2	LYS	74	-21.860	10.421	11.836	0.00	H
ATOM	900	HE3	LYS	74	-23.504	10.760	12.253	0.00	H
ATOM	901	NZ	LYS	74	-23.280	9.323	10.718	43.65	N1+
ATOM	902	HZ1	LYS	74	-24.210	9.463	10.353	0.00	H
ATOM	903	HZ2	LYS	74	-22.644	9.140	9.956	0.00	H
ATOM	904	HZ3	LYS	74	-23.281	8.538	11.351	0.00	H
ATOM	905	C	LYS	74	-21.443	16.222	9.184	27.72	C
ATOM	906	O	LYS	74	-20.257	16.195	8.871	29.65	O
ATOM	907	N	ALA	75	-22.359	16.874	8.473	27.55	N
ATOM	908	HN	ALA	75	-23.324	16.844	8.767	0.00	H
ATOM	909	CA	ALA	75	-21.983	17.626	7.280	27.08	C
ATOM	910	HA	ALA	75	-21.401	17.011	6.644	0.00	H
ATOM	911	CB	ALA	75	-23.229	18.079	6.533	27.92	C
ATOM	912	HB1	ALA	75	-23.796	17.232	6.246	0.00	H
ATOM	913	HB2	ALA	75	-23.813	18.697	7.164	0.00	H
ATOM	914	HB3	ALA	75	-22.945	18.623	5.670	0.00	H
ATOM	915	C	ALA	75	-21.132	18.836	7.673	26.53	C
ATOM	916	O	ALA	75	-20.281	19.284	6.905	24.61	O
ATOM	917	N	SER	76	-21.369	19.335	8.885	27.44	N
ATOM	918	HN	SER	76	-22.082	18.866	9.423	0.00	H
ATOM	919	CA	SER	76	-20.666	20.493	9.450	29.73	C
ATOM	920	HA	SER	76	-20.874	21.352	8.866	0.00	H
ATOM	921	CB	SER	76	-21.132	20.737	10.888	31.51	C
ATOM	922	HB2	SER	76	-21.141	19.819	11.417	0.00	H
ATOM	923	HB3	SER	76	-20.469	21.412	11.364	0.00	H
ATOM	924	OG	SER	76	-22.438	21.289	10.914	37.18	O
ATOM	925	HG	SER	76	-22.709	21.433	11.831	0.00	H
ATOM	926	C	SER	76	-19.151	20.377	9.456	29.57	C
ATOM	927	O	SER	76	-18.437	21.378	9.304	29.39	O
ATOM	928	N	THR	77	-18.675	19.151	9.648	28.58	N
ATOM	929	HN	THR	77	-19.354	18.413	9.763	0.00	H
ATOM	930	CA	THR	77	-17.252	18.845	9.696	27.31	C
ATOM	931	HA	THR	77	-16.774	19.496	10.381	0.00	H
ATOM	932	CB	THR	77	-17.035	17.375	10.153	28.88	C
ATOM	933	HB	THR	77	-16.018	17.233	10.413	0.00	H
ATOM	934	OG1	THR	77	-17.404	16.482	9.092	30.52	O
ATOM	935	HG1	THR	77	-17.268	15.568	9.378	0.00	H
ATOM	936	CG2	THR	77	-17.902	17.049	11.365	27.22	C
ATOM	937	HG21	THR	77	-17.648	17.695	12.165	0.00	H
ATOM	938	HG22	THR	77	-18.923	17.181	11.115	0.00	H
ATOM	939	HG23	THR	77	-17.737	16.045	11.657	0.00	H
ATOM	940	C	THR	77	-16.559	19.031	8.336	26.88	C
ATOM	941	O	THR	77	-15.356	19.282	8.283	26.67	O
ATOM	942	N	VAL	78	-17.325	18.916	7.249	25.34	N
ATOM	943	HN	VAL	78	-18.309	18.754	7.403	0.00	H
ATOM	944	CA	VAL	78	-16.804	19.014	5.883	23.65	C
ATOM	945	HA	VAL	78	-15.908	18.456	5.806	0.00	H
ATOM	946	CB	VAL	78	-17.832	18.456	4.866	21.39	C
ATOM	947	HB	VAL	78	-18.703	19.058	4.879	0.00	H
ATOM	948	CG1	VAL	78	-17.260	18.500	3.478	18.26	C
ATOM	949	HG11	VAL	78	-17.028	19.501	3.224	0.00	H
ATOM	950	HG12	VAL	78	-16.380	17.913	3.440	0.00	H
ATOM	951	HG13	VAL	78	-17.970	18.117	2.792	0.00	H
ATOM	952	CG2	VAL	78	-18.206	17.048	5.219	19.38	C
ATOM	953	HG21	VAL	78	-17.340	16.438	5.204	0.00	H
ATOM	954	HG22	VAL	78	-18.634	17.029	6.187	0.00	H
ATOM	955	HG23	VAL	78	-18.908	16.682	4.515	0.00	H
ATOM	956	C	VAL	78	-16.371	20.389	5.372	25.42	C
ATOM	957	O	VAL	78	-17.095	21.368	5.526	26.26	O
ATOM	958	N	LYS	79	-15.186	20.447	4.756	26.69	N
ATOM	959	HN	LYS	79	-14.642	19.599	4.704	0.00	H
ATOM	960	CA	LYS	79	-14.670	21.686	4.168	27.82	C
ATOM	961	HA	LYS	79	-15.364	22.469	4.330	0.00	H
ATOM	962	CB	LYS	79	-13.334	22.102	4.780	28.45	C
ATOM	963	HB2	LYS	79	-13.465	22.299	5.812	0.00	H
ATOM	964	HB3	LYS	79	-12.630	21.320	4.656	0.00	H
ATOM	965	CG	LYS	79	-12.760	23.365	4.125	30.62	C
ATOM	966	HG2	LYS	79	-12.485	23.150	3.125	0.00	H
ATOM	967	HG3	LYS	79	-13.492	24.130	4.133	0.00	H
ATOM	968	CD	LYS	79	-11.531	23.881	4.851	32.68	C
ATOM	969	HD2	LYS	79	-11.785	24.117	5.852	0.00	H
ATOM	970	HD3	LYS	79	-10.778	23.136	4.844	0.00	H
ATOM	971	CE	LYS	79	-10.956	25.145	4.195	35.01	C
ATOM	972	HE2	LYS	79	-10.482	24.886	3.284	0.00	H

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ATOM    973  HE3 LYS    79     -11.740  25.830   4.002        0.00           H
ATOM    974  NZ  LYS    79      -9.933  25.849   5.061       34.36           N1+
ATOM    975  HZ1 LYS    79     -10.362  26.124   5.932        0.00           H
ATOM    976  HZ2 LYS    79      -9.163  25.224   5.248        0.00           H
ATOM    977  HZ3 LYS    79      -9.592  26.668   4.580        0.00           H
ATOM    978  C   LYS    79     -14.479  21.471   2.673       27.52           C
ATOM    979  O   LYS    79     -13.413  21.069   2.219       26.91           O
ATOM    980  N   ALA    80     -15.532  21.738   1.914       28.65           N
ATOM    981  HN  ALA    80     -16.368  22.071   2.371        0.00           H
ATOM    982  CA  ALA    80     -15.512  21.566   0.472       28.61           C
ATOM    983  HA  ALA    80     -15.004  20.669   0.231        0.00           H
ATOM    984  CB  ALA    80     -16.934  21.496  -0.058       29.21           C
ATOM    985  HB1 ALA    80     -17.436  20.676   0.385        0.00           H
ATOM    986  HB2 ALA    80     -17.444  22.393   0.180        0.00           H
ATOM    987  HB3 ALA    80     -16.913  21.371  -1.109        0.00           H
ATOM    988  C   ALA    80     -14.775  22.710  -0.179       28.27           C
ATOM    989  O   ALA    80     -14.859  23.843   0.275       29.25           O
ATOM    990  N   LYS    81     -14.066  22.401  -1.255       29.43           N
ATOM    991  HN  LYS    81     -14.070  21.439  -1.559        0.00           H
ATOM    992  CA  LYS    81     -13.301  23.392  -1.991       32.94           C
ATOM    993  HA  LYS    81     -13.232  24.281  -1.419        0.00           H
ATOM    994  CB  LYS    81     -11.895  22.876  -2.277       38.35           C
ATOM    995  HB2 LYS    81     -11.944  21.856  -2.559        0.00           H
ATOM    996  HB3 LYS    81     -11.466  23.439  -3.064        0.00           H
ATOM    997  CG  LYS    81     -10.910  22.948  -1.120       46.30           C
ATOM    998  HG2 LYS    81     -10.613  23.954  -0.971        0.00           H
ATOM    999  HG3 LYS    81     -11.372  22.582  -0.240        0.00           H
ATOM   1000  CD  LYS    81      -9.686  22.090  -1.460       50.65           C
ATOM   1001  HD2 LYS    81      -9.968  21.070  -1.491        0.00           H
ATOM   1002  HD3 LYS    81      -9.303  22.379  -2.404        0.00           H
ATOM   1003  CE  LYS    81      -8.557  22.223  -0.448       52.59           C
ATOM   1004  HE2 LYS    81      -8.185  23.214  -0.463        0.00           H
ATOM   1005  HE3 LYS    81      -8.922  21.998   0.520        0.00           H
ATOM   1006  NZ  LYS    81      -7.450  21.272  -0.794       53.97           N1+
ATOM   1007  HZ1 LYS    81      -7.802  20.326  -0.779        0.00           H
ATOM   1008  HZ2 LYS    81      -7.099  21.486  -1.716        0.00           H
ATOM   1009  HZ3 LYS    81      -6.705  21.364  -0.120        0.00           H
ATOM   1010  C   LYS    81     -13.938  23.758  -3.321       32.21           C
ATOM   1011  O   LYS    81     -14.729  23.012  -3.886       32.49           O
ATOM   1012  N   LEU    82     -13.553  24.924  -3.813       31.55           N
ATOM   1013  HN  LEU    82     -12.901  25.452  -3.253        0.00           H
ATOM   1014  CA  LEU    82     -14.016  25.455  -5.082       29.74           C
ATOM   1015  HA  LEU    82     -15.006  25.125  -5.263        0.00           H
ATOM   1016  CB  LEU    82     -13.977  26.983  -5.004       28.83           C
ATOM   1017  HB2 LEU    82     -14.548  27.309  -4.173        0.00           H
ATOM   1018  HB3 LEU    82     -12.974  27.305  -4.892        0.00           H
ATOM   1019  CG  LEU    82     -14.503  27.819  -6.160       28.44           C
ATOM   1020  HG  LEU    82     -13.891  27.669  -7.011        0.00           H
ATOM   1021  CD1 LEU    82     -15.924  27.404  -6.482       29.39           C
ATOM   1022 HD11 LEU    82     -15.940  26.380  -6.752        0.00           H
ATOM   1023 HD12 LEU    82     -16.537  27.554  -5.632        0.00           H
ATOM   1024 HD13 LEU    82     -16.288  27.987  -7.287        0.00           H
ATOM   1025  CD2 LEU    82     -14.439  29.283  -5.781       25.91           C
ATOM   1026 HD21 LEU    82     -15.033  29.451  -4.920        0.00           H
ATOM   1027 HD22 LEU    82     -13.435  29.551  -5.575        0.00           H
ATOM   1028 HD23 LEU    82     -14.804  29.871  -6.582        0.00           H
ATOM   1029  C   LEU    82     -13.061  24.940  -6.169       30.26           C
ATOM   1030  O   LEU    82     -11.841  25.021  -6.022       30.34           O
ATOM   1031  N   LEU    83     -13.606  24.396  -7.251       31.21           N
ATOM   1032  HN  LEU    83     -14.611  24.342  -7.317        0.00           H
ATOM   1033  CA  LEU    83     -12.776  23.882  -8.333       30.76           C
ATOM   1034  HA  LEU    83     -11.872  23.502  -7.934        0.00           H
ATOM   1035  CB  LEU    83     -13.493  22.761  -9.081       29.95           C
ATOM   1036  HB2 LEU    83     -14.521  22.768  -8.827        0.00           H
ATOM   1037  HB3 LEU    83     -13.386  22.908 -10.124        0.00           H
ATOM   1038  CG  LEU    83     -12.994  21.341  -8.798       30.62           C
ATOM   1039  HG  LEU    83     -11.944  21.302  -8.932        0.00           H
ATOM   1040  CD1 LEU    83     -13.337  20.968  -7.374       28.61           C
ATOM   1041 HD11 LEU    83     -12.871  21.648  -6.709        0.00           H
ATOM   1042 HD12 LEU    83     -14.387  21.009  -7.242        0.00           H
ATOM   1043 HD13 LEU    83     -12.994  19.986  -7.174        0.00           H
ATOM   1044  CD2 LEU    83     -13.619  20.356  -9.788       28.98           C
ATOM   1045 HD21 LEU    83     -14.673  20.379  -9.691        0.00           H
ATOM   1046 HD22 LEU    83     -13.349  20.629 -10.775        0.00           H
ATOM   1047 HD23 LEU    83     -13.267  19.378  -9.583        0.00           H
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ATOM   1048  C   LEU   83     -12.418  24.975  -9.318       32.65           C
ATOM   1049  O   LEU   83     -13.195  25.895  -9.544       33.33           O
ATOM   1050  N   SER   84     -11.226  24.883  -9.898       34.61           N
ATOM   1051  HN  SER   84     -10.621  24.116  -9.645        0.00           H
ATOM   1052  CA  SER   84     -10.786  25.866 -10.885       34.90           C
ATOM   1053  HA  SER   84     -10.966  26.842 -10.515        0.00           H
ATOM   1054  CB  SER   84      -9.294  25.707 -11.165       34.73           C
ATOM   1055  HB2 SER   84      -8.994  26.415 -11.893        0.00           H
ATOM   1056  HB3 SER   84      -8.748  25.866 -10.272        0.00           H
ATOM   1057  OG  SER   84      -9.017  24.402 -11.649       33.52           O
ATOM   1058  HG  SER   84      -8.069  24.317 -11.822        0.00           H
ATOM   1059  C   SER   84     -11.550  25.571 -12.162       35.27           C
ATOM   1060  O   SER   84     -11.977  24.433 -12.382       34.32           O
ATOM   1061  N   ILE   85     -11.728  26.587 -12.996       35.62           N
ATOM   1062  HN  ILE   85     -11.380  27.502 -12.751        0.00           H
ATOM   1063  CA  ILE   85     -12.421  26.387 -14.258       37.18           C
ATOM   1064  HA  ILE   85     -13.442  26.177 -14.071        0.00           H
ATOM   1065  CB  ILE   85     -12.335  27.639 -15.149       36.44           C
ATOM   1066  HB  ILE   85     -11.328  27.960 -15.210        0.00           H
ATOM   1067  CG2 ILE   85     -12.841  27.331 -16.549       34.24           C
ATOM   1068 HG21 ILE   85     -12.251  26.563 -16.977        0.00           H
ATOM   1069 HG22 ILE   85     -13.850  27.014 -16.498        0.00           H
ATOM   1070 HG23 ILE   85     -12.775  28.202 -17.148        0.00           H
ATOM   1071  CG1 ILE   85     -13.148  28.763 -14.504       38.37           C
ATOM   1072 HG12 ILE   85     -14.152  28.448 -14.384        0.00           H
ATOM   1073 HG13 ILE   85     -12.736  28.998 -13.557        0.00           H
ATOM   1074  CD1 ILE   85     -13.187  30.056 -15.296       39.76           C
ATOM   1075 HD11 ILE   85     -12.202  30.424 -15.419        0.00           H
ATOM   1076 HD12 ILE   85     -13.618  29.875 -16.246        0.00           H
ATOM   1077 HD13 ILE   85     -13.769  30.771 -14.775        0.00           H
ATOM   1078  C   ILE   85     -11.732  25.223 -14.956       38.34           C
ATOM   1079  O   ILE   85     -12.376  24.267 -15.403       38.17           O
ATOM   1080  N   GLU   86     -10.410  25.298 -15.020       39.25           N
ATOM   1081  HN  GLU   86      -9.944  26.096 -14.614        0.00           H
ATOM   1082  CA  GLU   86      -9.635  24.256 -15.661       40.68           C
ATOM   1083  HA  GLU   86      -9.861  24.233 -16.695        0.00           H
ATOM   1084  CB  GLU   86      -8.150  24.513 -15.488       43.54           C
ATOM   1085  HB2 GLU   86      -7.937  25.523 -15.723        0.00           H
ATOM   1086  HB3 GLU   86      -7.873  24.318 -14.485        0.00           H
ATOM   1087  CG  GLU   86      -7.312  23.635 -16.386       49.55           C
ATOM   1088  HG2 GLU   86      -7.499  22.618 -16.159        0.00           H
ATOM   1089  HG3 GLU   86      -7.563  23.823 -17.398        0.00           H
ATOM   1090  CD  GLU   86      -5.837  23.884 -16.220       51.64           C
ATOM   1091  OE1 GLU   86      -5.440  25.070 -16.243       52.11           O1-
ATOM   1092  OE2 GLU   86      -5.081  22.897 -16.073       53.55           O
ATOM   1093  C   GLU   86      -9.972  22.894 -15.095       40.25           C
ATOM   1094  O   GLU   86     -10.278  21.966 -15.841       40.24           O
ATOM   1095  N   GLU   87      -9.913  22.774 -13.772       40.65           N
ATOM   1096  HN  GLU   87      -9.645  23.579 -13.226        0.00           H
ATOM   1097  CA  GLU   87     -10.226  21.511 -13.106       41.01           C
ATOM   1098  HA  GLU   87      -9.512  20.780 -13.383        0.00           H
ATOM   1099  CB  GLU   87     -10.198  21.677 -11.591       43.30           C
ATOM   1100  HB2 GLU   87     -10.487  22.664 -11.339        0.00           H
ATOM   1101  HB3 GLU   87     -10.869  20.988 -11.148        0.00           H
ATOM   1102  CG  GLU   87      -8.839  21.438 -10.971       46.74           C
ATOM   1103  HG2 GLU   87      -8.433  20.536 -11.349        0.00           H
ATOM   1104  HG3 GLU   87      -8.195  22.243 -11.211        0.00           H
ATOM   1105  CD  GLU   87      -8.913  21.327  -9.460       48.00           C
ATOM   1106  OE1 GLU   87      -9.079  22.376  -8.787       48.92           O1-
ATOM   1107  OE2 GLU   87      -8.819  20.183  -8.957       46.45           O
ATOM   1108  C   GLU   87     -11.591  20.993 -13.507       40.01           C
ATOM   1109  O   GLU   87     -11.776  19.793 -13.711       39.44           O
ATOM   1110  N   ALA   88     -12.549  21.908 -13.601       38.77           N
ATOM   1111  HN  ALA   88     -12.314  22.869 -13.405        0.00           H
ATOM   1112  CA  ALA   88     -13.903  21.555 -13.974       36.80           C
ATOM   1113  HA  ALA   88     -14.250  20.776 -13.346        0.00           H
ATOM   1114  CB  ALA   88     -14.806  22.754 -13.825       37.58           C
ATOM   1115  HB1 ALA   88     -14.795  23.081 -12.818        0.00           H
ATOM   1116  HB2 ALA   88     -14.463  23.534 -14.453        0.00           H
ATOM   1117  HB3 ALA   88     -15.794  22.488 -14.099        0.00           H
ATOM   1118  C   ALA   88     -13.910  21.080 -15.410       36.48           C
ATOM   1119  O   ALA   88     -14.582  20.116 -15.755       36.99           O
ATOM   1120  N   CYS   89     -13.150  21.759 -16.254       35.91           N
ATOM   1121  HN  CYS   89     -12.599  22.537 -15.924        0.00           H
ATOM   1122  CA  CYS   89     -13.109  21.385 -17.650       35.51           C
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ATOM	1123	HA	CYS	89	-14.088	21.418	-18.053	0.00	H
ATOM	1124	CB	CYS	89	-12.296	22.414	-18.436	34.24	C
ATOM	1125	HB2	CYS	89	-11.402	22.632	-17.912	0.00	H
ATOM	1126	HB3	CYS	89	-12.059	22.022	-19.391	0.00	H
ATOM	1127	SG	CYS	89	-13.192	23.993	-18.690	32.72	S
ATOM	1128	HG	CYS	89	-12.470	24.782	-19.337	0.00	H
ATOM	1129	C	CYS	89	-12.563	19.980	-17.866	36.05	C
ATOM	1130	O	CYS	89	-13.094	19.215	-18.676	36.23	O
ATOM	1131	N	LYS	90	-11.516	19.633	-17.126	37.07	N
ATOM	1132	HN	LYS	90	-11.150	20.297	-16.460	0.00	H
ATOM	1133	CA	LYS	90	-10.898	18.322	-17.262	37.97	C
ATOM	1134	HA	LYS	90	-10.682	18.138	-18.282	0.00	H
ATOM	1135	CB	LYS	90	-9.598	18.254	-16.460	40.61	C
ATOM	1136	HB2	LYS	90	-8.895	18.931	-16.870	0.00	H
ATOM	1137	HB3	LYS	90	-9.791	18.513	-15.452	0.00	H
ATOM	1138	CG	LYS	90	-8.995	16.865	-16.488	46.19	C
ATOM	1139	HG2	LYS	90	-9.534	16.233	-15.831	0.00	H
ATOM	1140	HG3	LYS	90	-9.047	16.477	-17.472	0.00	H
ATOM	1141	CD	LYS	90	-7.545	16.821	-16.065	49.99	C
ATOM	1142	HD2	LYS	90	-7.010	17.591	-16.557	0.00	H
ATOM	1143	HD3	LYS	90	-7.479	16.959	-15.017	0.00	H
ATOM	1144	CE	LYS	90	-6.951	15.468	-16.440	52.03	C
ATOM	1145	HE2	LYS	90	-7.506	14.697	-15.972	0.00	H
ATOM	1146	HE3	LYS	90	-6.991	15.344	-17.491	0.00	H
ATOM	1147	NZ	LYS	90	-5.531	15.336	-16.015	55.58	N1+
ATOM	1148	HZ1	LYS	90	-4.979	16.053	-16.460	0.00	H
ATOM	1149	HZ2	LYS	90	-5.469	15.437	-15.013	0.00	H
ATOM	1150	HZ3	LYS	90	-5.183	14.428	-16.284	0.00	H
ATOM	1151	C	LYS	90	-11.803	17.161	-16.855	37.76	C
ATOM	1152	O	LYS	90	-11.648	16.036	-17.348	37.45	O
ATOM	1153	N	LEU	91	-12.744	17.431	-15.954	36.83	N
ATOM	1154	HN	LEU	91	-12.803	18.371	-15.592	0.00	H
ATOM	1155	CA	LEU	91	-13.675	16.411	-15.489	34.41	C
ATOM	1156	HA	LEU	91	-13.146	15.515	-15.290	0.00	H
ATOM	1157	CB	LEU	91	-14.364	16.880	-14.218	32.72	C
ATOM	1158	HB2	LEU	91	-14.611	17.906	-14.308	0.00	H
ATOM	1159	HB3	LEU	91	-15.248	16.316	-14.067	0.00	H
ATOM	1160	CG	LEU	91	-13.591	16.768	-12.913	31.33	C
ATOM	1161	HG	LEU	91	-12.629	17.194	-13.035	0.00	H
ATOM	1162	CD1	LEU	91	-14.335	17.505	-11.822	32.20	C
ATOM	1163	HD11	LEU	91	-14.432	18.525	-12.088	0.00	H
ATOM	1164	HD12	LEU	91	-15.297	17.079	-11.701	0.00	H
ATOM	1165	HD13	LEU	91	-13.797	17.427	-10.913	0.00	H
ATOM	1166	CD2	LEU	91	-13.435	15.316	-12.544	30.42	C
ATOM	1167	HD21	LEU	91	-14.391	14.877	-12.426	0.00	H
ATOM	1168	HD22	LEU	91	-12.907	14.812	-13.311	0.00	H
ATOM	1169	HD23	LEU	91	-12.897	15.239	-11.635	0.00	H
ATOM	1170	C	LEU	91	-14.739	16.054	-16.520	34.93	C
ATOM	1171	O	LEU	91	-15.380	15.020	-16.406	36.25	O
ATOM	1172	N	THR	92	-14.915	16.905	-17.526	36.09	N
ATOM	1173	HN	THR	92	-14.320	17.720	-17.545	0.00	H
ATOM	1174	CA	THR	92	-15.916	16.704	-18.578	36.82	C
ATOM	1175	HA	THR	92	-16.843	16.443	-18.138	0.00	H
ATOM	1176	CB	THR	92	-16.095	17.994	-19.399	35.48	C
ATOM	1177	HB	THR	92	-15.274	18.110	-20.058	0.00	H
ATOM	1178	OG1	THR	92	-16.163	19.115	-18.517	35.30	O
ATOM	1179	HG1	THR	92	-16.275	19.925	-19.033	0.00	H
ATOM	1180	CG2	THR	92	-17.376	17.930	-20.212	35.19	C
ATOM	1181	HG21	THR	92	-17.334	17.104	-20.873	0.00	H
ATOM	1182	HG22	THR	92	-18.203	17.819	-19.560	0.00	H
ATOM	1183	HG23	THR	92	-17.485	18.823	-20.770	0.00	H
ATOM	1184	C	THR	92	-15.671	15.564	-19.587	37.96	C
ATOM	1185	O	THR	92	-14.624	15.495	-20.223	37.50	O
ATOM	1186	N	PRO	93	-16.650	14.660	-19.753	39.82	N
ATOM	1187	CD	PRO	93	-17.925	14.514	-19.029	40.47	C
ATOM	1188	HD2	PRO	93	-17.787	14.782	-18.014	0.00	H
ATOM	1189	HD3	PRO	93	-18.653	15.147	-19.466	0.00	H
ATOM	1190	CA	PRO	93	-16.468	13.566	-20.712	40.62	C
ATOM	1191	HA	PRO	93	-15.630	12.984	-20.429	0.00	H
ATOM	1192	CB	PRO	93	-17.792	12.807	-20.630	40.73	C
ATOM	1193	HB2	PRO	93	-18.472	13.207	-21.336	0.00	H
ATOM	1194	HB3	PRO	93	-17.625	11.783	-20.841	0.00	H
ATOM	1195	CG	PRO	93	-18.227	13.039	-19.219	41.32	C
ATOM	1196	HG2	PRO	93	-19.257	12.813	-19.125	0.00	H
ATOM	1197	HG3	PRO	93	-17.668	12.416	-18.570	0.00	H

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ATOM   1198  C   PRO   93     -16.240  14.167 -22.098       41.07           C
ATOM   1199  O   PRO   93     -16.809  15.207 -22.430       41.72           O
ATOM   1200  N   PRO   94     -15.406  13.519 -22.922       42.03           N
ATOM   1201  CD  PRO   94     -14.556  12.380 -22.548       43.13           C
ATOM   1202  HD2 PRO   94     -14.330  12.432 -21.515        0.00           H
ATOM   1203  HD3 PRO   94     -15.068  11.476 -22.752        0.00           H
ATOM   1204  CA  PRO   94     -15.083  13.974 -24.278       41.81           C
ATOM   1205  HA  PRO   94     -14.721  14.968 -24.240        0.00           H
ATOM   1206  CB  PRO   94     -13.982  13.014 -24.714       41.75           C
ATOM   1207  HB2 PRO   94     -14.411  12.200 -25.238        0.00           H
ATOM   1208  HB3 PRO   94     -13.301  13.522 -25.346        0.00           H
ATOM   1209  CG  PRO   94     -13.358  12.595 -23.428       42.74           C
ATOM   1210  HG2 PRO   94     -12.794  11.712 -23.581        0.00           H
ATOM   1211  HG3 PRO   94     -12.721  13.365 -23.077        0.00           H
ATOM   1212  C   PRO   94     -16.249  13.975 -25.257       41.63           C
ATOM   1213  O   PRO   94     -16.246  14.732 -26.220       42.45           O
ATOM   1214  N   HIS   95     -17.244  13.129 -25.037       41.33           N
ATOM   1215  HN  HIS   95     -17.231  12.501 -24.247        0.00           H
ATOM   1216  CA  HIS   95     -18.369  13.115 -25.958       42.66           C
ATOM   1217  HA  HIS   95     -18.146  13.722 -26.797        0.00           H
ATOM   1218  CB  HIS   95     -18.658  11.689 -26.443       47.20           C
ATOM   1219  HB2 HIS   95     -18.631  11.024 -25.619        0.00           H
ATOM   1220  HB3 HIS   95     -19.616  11.656 -26.892        0.00           H
ATOM   1221  CG  HIS   95     -17.675  11.182 -27.456       51.67           C
ATOM   1222  CD2 HIS   95     -17.684  11.239 -28.811       52.41           C
ATOM   1223  HD2 HIS   95     -18.513  11.695 -29.325        0.00           H
ATOM   1224  ND1 HIS   95     -16.500  10.548 -27.107       52.93           N1+
ATOM   1225  HD1 HIS   95     -16.280  10.393 -26.135        0.00           H
ATOM   1226  CE1 HIS   95     -15.828  10.237 -28.203       54.09           C
ATOM   1227  HE1 HIS   95     -14.879   9.733 -28.128        0.00           H
ATOM   1228  NE2 HIS   95     -16.524  10.646 -29.249       54.00           N
ATOM   1229  HE2 HIS   95     -16.331  10.584 -30.237        0.00           H
ATOM   1230  C   HIS   95     -19.628  13.740 -25.358       41.73           C
ATOM   1231  O   HIS   95     -20.732  13.601 -25.902       40.85           O
ATOM   1232  N   SER   96     -19.448  14.433 -24.235       40.03           N
ATOM   1233  HN  SER   96     -18.513  14.475 -23.858        0.00           H
ATOM   1234  CA  SER   96     -20.543  15.118 -23.551       37.26           C
ATOM   1235  HA  SER   96     -21.203  14.401 -23.136        0.00           H
ATOM   1236  CB  SER   96     -19.960  15.998 -22.431       37.08           C
ATOM   1237  HB2 SER   96     -19.353  15.406 -21.797        0.00           H
ATOM   1238  HB3 SER   96     -19.376  16.772 -22.858        0.00           H
ATOM   1239  OG  SER   96     -20.971  16.599 -21.635       37.53           O
ATOM   1240  HG  SER   96     -20.560  17.140 -20.947        0.00           H
ATOM   1241  C   SER   96     -21.319  15.975 -24.574       35.94           C
ATOM   1242  O   SER   96     -20.764  16.377 -25.602       34.13           O
ATOM   1243  N   ALA   97     -22.596  16.242 -24.302       34.81           N
ATOM   1244  HN  ALA   97     -22.984  15.874 -23.447        0.00           H
ATOM   1245  CA  ALA   97     -23.435  17.046 -25.204       33.91           C
ATOM   1246  HA  ALA   97     -23.467  16.588 -26.158        0.00           H
ATOM   1247  CB  ALA   97     -24.845  17.149 -24.657       31.33           C
ATOM   1248  HB1 ALA   97     -25.261  16.179 -24.570        0.00           H
ATOM   1249  HB2 ALA   97     -24.821  17.610 -23.704        0.00           H
ATOM   1250  HB3 ALA   97     -25.437  17.730 -25.315        0.00           H
ATOM   1251  C   ALA   97     -22.867  18.441 -25.403       35.23           C
ATOM   1252  O   ALA   97     -22.623  19.164 -24.438       36.53           O
ATOM   1253  N   LYS   98     -22.663  18.828 -26.656       36.02           N
ATOM   1254  HN  LYS   98     -22.900  18.199 -27.409        0.00           H
ATOM   1255  CA  LYS   98     -22.105  20.141 -26.952       36.28           C
ATOM   1256  HA  LYS   98     -21.158  20.235 -26.488        0.00           H
ATOM   1257  CB  LYS   98     -21.941  20.319 -28.464       37.76           C
ATOM   1258  HB2 LYS   98     -21.448  21.236 -28.660        0.00           H
ATOM   1259  HB3 LYS   98     -21.367  19.519 -28.853        0.00           H
ATOM   1260  CG  LYS   98     -23.245  20.344 -29.238       36.35           C
ATOM   1261  HG2 LYS   98     -23.699  19.388 -29.196        0.00           H
ATOM   1262  HG3 LYS   98     -23.895  21.063 -28.811        0.00           H
ATOM   1263  CD  LYS   98     -23.003  20.705 -30.685       36.84           C
ATOM   1264  HD2 LYS   98     -22.480  21.624 -30.737        0.00           H
ATOM   1265  HD3 LYS   98     -22.428  19.945 -31.147        0.00           H
ATOM   1266  CE  LYS   98     -24.302  20.851 -31.446       37.33           C
ATOM   1267  HE2 LYS   98     -24.736  19.896 -31.590        0.00           H
ATOM   1268  HE3 LYS   98     -24.968  21.462 -30.894        0.00           H
ATOM   1269  NZ  LYS   98     -24.074  21.478 -32.781       40.20           N1+
ATOM   1270  HZ1 LYS   98     -23.667  22.393 -32.658        0.00           H
ATOM   1271  HZ2 LYS   98     -23.447  20.901 -33.321        0.00           H
ATOM   1272  HZ3 LYS   98     -24.954  21.564 -33.267        0.00           H
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ATOM   1273  C   LYS    98     -22.990  21.248 -26.403      36.27           C
ATOM   1274  O   LYS    98     -24.138  21.004 -26.014      35.18           O
ATOM   1275  N   SER    99     -22.452  22.465 -26.372      35.46           N
ATOM   1276  HN  SER    99     -21.506  22.586 -26.702       0.00           H
ATOM   1277  CA  SER    99     -23.201  23.608 -25.875      35.08           C
ATOM   1278  HA  SER    99     -23.864  23.291 -25.113       0.00           H
ATOM   1279  CB  SER    99     -22.285  24.668 -25.301      33.25           C
ATOM   1280  HB2 SER    99     -21.877  24.324 -24.386       0.00           H
ATOM   1281  HB3 SER    99     -21.501  24.865 -25.985       0.00           H
ATOM   1282  OG  SER    99     -23.037  25.846 -25.079      26.89           O
ATOM   1283  HG  SER    99     -22.462  26.531 -24.712       0.00           H
ATOM   1284  C   SER    99     -24.023  24.274 -26.945      36.78           C
ATOM   1285  O   SER    99     -23.659  24.282 -28.116      38.66           O
ATOM   1286  N   LYS   100     -25.130  24.862 -26.523      37.62           N
ATOM   1287  HN  LYS   100     -25.350  24.811 -25.540       0.00           H
ATOM   1288  CA  LYS   100     -26.017  25.566 -27.429      37.92           C
ATOM   1289  HA  LYS   100     -26.286  24.925 -28.228       0.00           H
ATOM   1290  CB  LYS   100     -27.272  25.990 -26.652      41.32           C
ATOM   1291  HB2 LYS   100     -27.796  25.128 -26.331       0.00           H
ATOM   1292  HB3 LYS   100     -26.988  26.565 -25.809       0.00           H
ATOM   1293  CG  LYS   100     -28.265  26.831 -27.429      46.05           C
ATOM   1294  HG2 LYS   100     -27.778  27.691 -27.809       0.00           H
ATOM   1295  HG3 LYS   100     -28.656  26.263 -28.233       0.00           H
ATOM   1296  CD  LYS   100     -29.435  27.289 -26.549      47.98           C
ATOM   1297  HD2 LYS   100     -29.906  26.443 -26.120       0.00           H
ATOM   1298  HD3 LYS   100     -29.072  27.919 -25.779       0.00           H
ATOM   1299  CE  LYS   100     -30.464  28.064 -27.389      50.56           C
ATOM   1300  HE2 LYS   100     -29.970  28.819 -27.943       0.00           H
ATOM   1301  HE3 LYS   100     -30.950  27.398 -28.054       0.00           H
ATOM   1302  NZ  LYS   100     -31.529  28.735 -26.579      51.75           N1+
ATOM   1303  HZ1 LYS   100     -32.037  28.041 -26.051       0.00           H
ATOM   1304  HZ2 LYS   100     -31.104  29.395 -25.945       0.00           H
ATOM   1305  HZ3 LYS   100     -32.164  29.221 -27.195       0.00           H
ATOM   1306  C   LYS   100     -25.282  26.798 -27.965      35.96           C
ATOM   1307  O   LYS   100     -25.691  27.400 -28.961      35.24           O
ATOM   1308  N   PHE   101     -24.178  27.142 -27.304      33.60           N
ATOM   1309  HN  PHE   101     -23.884  26.550 -26.542       0.00           H
ATOM   1310  CA  PHE   101     -23.403  28.325 -27.647      32.14           C
ATOM   1311  HA  PHE   101     -23.982  28.959 -28.267       0.00           H
ATOM   1312  CB  PHE   101     -23.025  29.066 -26.363      31.99           C
ATOM   1313  HB2 PHE   101     -22.501  28.410 -25.718       0.00           H
ATOM   1314  HB3 PHE   101     -22.408  29.893 -26.601       0.00           H
ATOM   1315  CG  PHE   101     -24.207  29.588 -25.611      32.25           C
ATOM   1316  CD1 PHE   101     -24.842  30.760 -26.017      32.51           C
ATOM   1317  HD1 PHE   101     -24.440  31.335 -26.834       0.00           H
ATOM   1318  CD2 PHE   101     -24.741  28.869 -24.547      31.29           C
ATOM   1319  HD2 PHE   101     -24.261  27.965 -24.213       0.00           H
ATOM   1320  CE1 PHE   101     -26.001  31.209 -25.379      32.41           C
ATOM   1321  HE1 PHE   101     -26.479  32.116 -25.707       0.00           H
ATOM   1322  CE2 PHE   101     -25.895  29.306 -23.905      32.16           C
ATOM   1323  HE2 PHE   101     -26.302  28.740 -23.084       0.00           H
ATOM   1324  CZ  PHE   101     -26.529  30.480 -24.323      31.71           C
ATOM   1325  HZ  PHE   101     -27.424  30.819 -23.829       0.00           H
ATOM   1326  C   PHE   101     -22.167  28.163 -28.503      31.13           C
ATOM   1327  O   PHE   101     -21.217  28.914 -28.343      30.92           O
ATOM   1328  N   GLY   102     -22.160  27.179 -29.391      31.25           N
ATOM   1329  HN  GLY   102     -22.944  26.546 -29.451       0.00           H
ATOM   1330  CA  GLY   102     -21.020  27.012 -30.280      30.89           C
ATOM   1331  HA2 GLY   102     -21.293  26.387 -31.090       0.00           H
ATOM   1332  HA3 GLY   102     -20.719  27.958 -30.649       0.00           H
ATOM   1333  C   GLY   102     -19.713  26.402 -29.809      30.80           C
ATOM   1334  O   GLY   102     -18.641  26.912 -30.136      30.69           O
ATOM   1335  N   TYR   103     -19.790  25.320 -29.046      30.89           N
ATOM   1336  HN  TYR   103     -20.702  24.980 -28.778       0.00           H
ATOM   1337  CA  TYR   103     -18.592  24.624 -28.595      32.66           C
ATOM   1338  HA  TYR   103     -17.978  24.402 -29.429       0.00           H
ATOM   1339  CB  TYR   103     -17.784  25.479 -27.610      33.88           C
ATOM   1340  HB2 TYR   103     -16.863  25.000 -27.400       0.00           H
ATOM   1341  HB3 TYR   103     -17.598  26.430 -28.038       0.00           H
ATOM   1342  CG  TYR   103     -18.439  25.737 -26.276      35.35           C
ATOM   1343  CD1 TYR   103     -18.321  24.820 -25.223      34.59           C
ATOM   1344  HD1 TYR   103     -17.741  23.922 -25.354       0.00           H
ATOM   1345  CE1 TYR   103     -18.945  25.050 -23.998      33.52           C
ATOM   1346  HE1 TYR   103     -18.843  24.335 -23.199       0.00           H
ATOM   1347  CD2 TYR   103     -19.196  26.890 -26.067      35.37           C
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ATOM	1348	HD2	TYR	103	-19.301	27.616	-26.856	0.00	H
ATOM	1349	CE2	TYR	103	-19.826	27.125	-24.845	34.62	C
ATOM	1350	HE2	TYR	103	-20.410	28.019	-24.703	0.00	H
ATOM	1351	CZ	TYR	103	-19.695	26.204	-23.822	33.57	C
ATOM	1352	OH	TYR	103	-20.323	26.448	-22.626	34.71	O
ATOM	1353	HH	TYR	103	-20.144	25.721	-22.014	0.00	H
ATOM	1354	C	TYR	103	-19.008	23.299	-27.975	33.83	C
ATOM	1355	O	TYR	103	-20.183	23.113	-27.635	34.73	O
ATOM	1356	N	GLY	104	-18.061	22.373	-27.855	32.65	N
ATOM	1357	HN	GLY	104	-17.118	22.579	-28.150	0.00	H
ATOM	1358	CA	GLY	104	-18.380	21.071	-27.302	33.24	C
ATOM	1359	HA2	GLY	104	-19.333	21.107	-26.841	0.00	H
ATOM	1360	HA3	GLY	104	-18.390	20.351	-28.078	0.00	H
ATOM	1361	C	GLY	104	-17.405	20.573	-26.254	34.96	C
ATOM	1362	O	GLY	104	-16.492	21.290	-25.840	34.63	O
ATOM	1363	N	ALA	105	-17.603	19.334	-25.818	35.69	N
ATOM	1364	HN	ALA	105	-18.370	18.802	-26.202	0.00	H
ATOM	1365	CA	ALA	105	-16.739	18.740	-24.807	37.15	C
ATOM	1366	HA	ALA	105	-16.931	19.192	-23.869	0.00	H
ATOM	1367	CB	ALA	105	-17.006	17.249	-24.707	37.47	C
ATOM	1368	HB1	ALA	105	-18.018	17.089	-24.438	0.00	H
ATOM	1369	HB2	ALA	105	-16.813	16.792	-25.643	0.00	H
ATOM	1370	HB3	ALA	105	-16.374	16.826	-23.970	0.00	H
ATOM	1371	C	ALA	105	-15.298	18.980	-25.201	38.12	C
ATOM	1372	O	ALA	105	-14.473	19.419	-24.389	36.56	O
ATOM	1373	N	LYS	106	-15.025	18.684	-26.470	39.44	N
ATOM	1374	HN	LYS	106	-15.797	18.337	-27.020	0.00	H
ATOM	1375	CA	LYS	106	-13.709	18.834	-27.075	39.87	C
ATOM	1376	HA	LYS	106	-13.061	18.085	-26.700	0.00	H
ATOM	1377	CB	LYS	106	-13.848	18.689	-28.593	43.35	C
ATOM	1378	HB2	LYS	106	-14.473	17.863	-28.813	0.00	H
ATOM	1379	HB3	LYS	106	-14.275	19.571	-28.994	0.00	H
ATOM	1380	CG	LYS	106	-12.559	18.458	-29.360	48.40	C
ATOM	1381	HG2	LYS	106	-12.677	18.793	-30.358	0.00	H
ATOM	1382	HG3	LYS	106	-11.772	18.996	-28.898	0.00	H
ATOM	1383	CD	LYS	106	-12.182	16.980	-29.388	53.86	C
ATOM	1384	HD2	LYS	106	-11.932	16.661	-28.410	0.00	H
ATOM	1385	HD3	LYS	106	-13.002	16.413	-29.746	0.00	H
ATOM	1386	CE	LYS	106	-10.972	16.731	-30.311	56.45	C
ATOM	1387	HE2	LYS	106	-10.685	15.713	-30.250	0.00	H
ATOM	1388	HE3	LYS	106	-11.236	16.964	-31.310	0.00	H
ATOM	1389	NZ	LYS	106	-9.780	17.573	-29.937	56.83	N1+
ATOM	1390	HZ1	LYS	106	-10.025	18.550	-30.001	0.00	H
ATOM	1391	HZ2	LYS	106	-9.500	17.358	-28.992	0.00	H
ATOM	1392	HZ3	LYS	106	-9.017	17.375	-30.567	0.00	H
ATOM	1393	C	LYS	106	-13.109	20.205	-26.726	38.97	C
ATOM	1394	O	LYS	106	-12.009	20.294	-26.173	37.11	O
ATOM	1395	N	ASP	107	-13.844	21.270	-27.038	37.48	N
ATOM	1396	HN	ASP	107	-14.744	21.125	-27.469	0.00	H
ATOM	1397	CA	ASP	107	-13.375	22.622	-26.770	37.46	C
ATOM	1398	HA	ASP	107	-12.383	22.728	-27.125	0.00	H
ATOM	1399	CB	ASP	107	-14.278	23.633	-27.479	37.38	C
ATOM	1400	HB2	ASP	107	-15.269	23.534	-27.119	0.00	H
ATOM	1401	HB3	ASP	107	-13.929	24.614	-27.286	0.00	H
ATOM	1402	CG	ASP	107	-14.303	23.431	-28.984	38.73	C
ATOM	1403	OD1	ASP	107	-13.210	23.412	-29.598	39.58	O
ATOM	1404	OD2	ASP	107	-15.409	23.286	-29.550	38.30	O1-
ATOM	1405	C	ASP	107	-13.259	22.957	-25.279	38.16	C
ATOM	1406	O	ASP	107	-12.438	23.796	-24.889	39.26	O
ATOM	1407	N	VAL	108	-14.069	22.306	-24.446	36.70	N
ATOM	1408	HN	VAL	108	-14.729	21.640	-24.820	0.00	H
ATOM	1409	CA	VAL	108	-14.011	22.545	-23.011	34.84	C
ATOM	1410	HA	VAL	108	-14.006	23.588	-22.827	0.00	H
ATOM	1411	CB	VAL	108	-15.233	21.922	-22.278	34.66	C
ATOM	1412	HB	VAL	108	-15.331	20.905	-22.557	0.00	H
ATOM	1413	CG1	VAL	108	-15.041	21.987	-20.765	32.96	C
ATOM	1414	HG11	VAL	108	-14.169	21.450	-20.496	0.00	H
ATOM	1415	HG12	VAL	108	-14.939	22.998	-20.465	0.00	H
ATOM	1416	HG13	VAL	108	-15.882	21.559	-20.284	0.00	H
ATOM	1417	CG2	VAL	108	-16.496	22.666	-22.655	33.23	C
ATOM	1418	HG21	VAL	108	-16.403	23.683	-22.376	0.00	H
ATOM	1419	HG22	VAL	108	-16.646	22.600	-23.701	0.00	H
ATOM	1420	HG23	VAL	108	-17.323	22.236	-22.152	0.00	H
ATOM	1421	C	VAL	108	-12.722	21.946	-22.452	34.78	C
ATOM	1422	O	VAL	108	-11.972	22.614	-21.738	34.85	O

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ATOM   1423  N   ARG   109     -12.452  20.691 -22.791      34.71           N
ATOM   1424  HN  ARG   109     -13.086  20.190 -23.396       0.00           H
ATOM   1425  CA  ARG   109     -11.246  20.035 -22.294      35.52           C
ATOM   1426  HA  ARG   109     -11.256  20.034 -21.235       0.00           H
ATOM   1427  CB  ARG   109     -11.171  18.590 -22.788      34.00           C
ATOM   1428  HB2 ARG   109     -11.115  18.581 -23.845       0.00           H
ATOM   1429  HB3 ARG   109     -10.310  18.123 -22.385       0.00           H
ATOM   1430  CG  ARG   109     -12.357  17.738 -22.402      32.63           C
ATOM   1431  HG2 ARG   109     -12.437  17.702 -21.347       0.00           H
ATOM   1432  HG3 ARG   109     -13.240  18.157 -22.809       0.00           H
ATOM   1433  CD  ARG   109     -12.226  16.309 -22.919      35.36           C
ATOM   1434  HD2 ARG   109     -13.137  15.792 -22.763       0.00           H
ATOM   1435  HD3 ARG   109     -12.004  16.327 -23.954       0.00           H
ATOM   1436  NE  ARG   109     -11.166  15.565 -22.245      35.91           N1+
ATOM   1437  HE  ARG   109     -10.414  15.160 -22.782       0.00           H
ATOM   1438  CZ  ARG   109     -11.108  15.370 -20.932      37.85           C
ATOM   1439  NH1 ARG   109     -12.050  15.860 -20.139      39.67           N
ATOM   1440 HH11 ARG   109     -12.000  15.708 -19.143       0.00           H
ATOM   1441 HH12 ARG   109     -12.817  16.385 -20.532       0.00           H
ATOM   1442  NH2 ARG   109     -10.096  14.699 -20.405      39.48           N
ATOM   1443 HH21 ARG   109     -10.053  14.552 -19.408       0.00           H
ATOM   1444 HH22 ARG   109      -9.367  14.335 -21.001       0.00           H
ATOM   1445  C   ARG   109      -9.985  20.784 -22.712      36.40           C
ATOM   1446  O   ARG   109      -9.044  20.886 -21.930      37.52           O
ATOM   1447  N   ASN   110      -9.967  21.312 -23.935      36.87           N
ATOM   1448  HN  ASN   110     -10.774  21.198 -24.530       0.00           H
ATOM   1449  CA  ASN   110      -8.800  22.049 -24.419      38.72           C
ATOM   1450  HA  ASN   110      -7.922  21.644 -23.987       0.00           H
ATOM   1451  CB  ASN   110      -8.693  21.950 -25.943      41.31           C
ATOM   1452  HB2 ASN   110      -9.616  22.230 -26.381       0.00           H
ATOM   1453  HB3 ASN   110      -7.928  22.598 -26.286       0.00           H
ATOM   1454  CG  ASN   110      -8.360  20.541 -26.413      45.36           C
ATOM   1455  OD1 ASN   110      -7.374  19.938 -25.963      47.58           O
ATOM   1456  ND2 ASN   110      -9.176  20.008 -27.324      45.14           N
ATOM   1457 HD21 ASN   110      -9.967  20.535 -27.663       0.00           H
ATOM   1458 HD22 ASN   110      -9.002  19.078 -27.674       0.00           H
ATOM   1459  C   ASN   110      -8.798  23.520 -24.007      38.21           C
ATOM   1460  O   ASN   110      -7.989  24.307 -24.497      37.99           O
ATOM   1461  N   LEU   111      -9.701  23.883 -23.104      36.54           N
ATOM   1462  HN  LEU   111     -10.332  23.179 -22.752       0.00           H
ATOM   1463  CA  LEU   111      -9.796  25.254 -22.620      34.98           C
ATOM   1464  HA  LEU   111     -10.693  25.373 -22.070       0.00           H
ATOM   1465  CB  LEU   111      -8.599  25.565 -21.714      35.04           C
ATOM   1466  HB2 LEU   111      -7.731  25.690 -22.307       0.00           H
ATOM   1467  HB3 LEU   111      -8.788  26.455 -21.173       0.00           H
ATOM   1468  CG  LEU   111      -8.210  24.528 -20.652      36.25           C
ATOM   1469  HG  LEU   111      -7.748  23.699 -21.121       0.00           H
ATOM   1470  CD1 LEU   111      -7.238  25.172 -19.666      35.28           C
ATOM   1471 HD11 LEU   111      -6.373  25.496 -20.184       0.00           H
ATOM   1472 HD12 LEU   111      -7.704  26.002 -19.202       0.00           H
ATOM   1473 HD13 LEU   111      -6.963  24.464 -18.928       0.00           H
ATOM   1474  CD2 LEU   111      -9.445  24.023 -19.912      36.53           C
ATOM   1475 HD21 LEU   111      -9.928  24.836 -19.435       0.00           H
ATOM   1476 HD22 LEU   111     -10.110  23.573 -20.602       0.00           H
ATOM   1477 HD23 LEU   111      -9.154  23.310 -19.185       0.00           H
ATOM   1478  C   LEU   111      -9.867  26.292 -23.747      33.52           C
ATOM   1479  O   LEU   111      -9.144  27.289 -23.723      32.20           O
ATOM   1480  N   SER   112     -10.751  26.077 -24.717      32.36           N
ATOM   1481  HN  SER   112     -11.346  25.263 -24.678       0.00           H
ATOM   1482  CA  SER   112     -10.863  27.009 -25.831      33.42           C
ATOM   1483  HA  SER   112      -9.900  27.366 -26.091       0.00           H
ATOM   1484  CB  SER   112     -11.482  26.318 -27.046      32.17           C
ATOM   1485  HB2 SER   112     -11.176  26.816 -27.929       0.00           H
ATOM   1486  HB3 SER   112     -11.161  25.310 -27.080       0.00           H
ATOM   1487  OG  SER   112     -12.895  26.337 -26.986      32.00           O
ATOM   1488  HG  SER   112     -13.257  25.894 -27.766       0.00           H
ATOM   1489  C   SER   112     -11.675  28.254 -25.484      35.61           C
ATOM   1490  O   SER   112     -12.908  28.232 -25.479      37.95           O
ATOM   1491  N   SER   113     -10.967  29.343 -25.208      36.15           N
ATOM   1492  HN  SER   113      -9.963  29.254 -25.256       0.00           H
ATOM   1493  CA  SER   113     -11.571  30.625 -24.849      37.97           C
ATOM   1494  HA  SER   113     -11.429  30.805 -23.815       0.00           H
ATOM   1495  CB  SER   113     -10.919  31.752 -25.651      37.97           C
ATOM   1496  HB2 SER   113     -11.309  32.684 -25.332       0.00           H
ATOM   1497  HB3 SER   113      -9.872  31.735 -25.496       0.00           H
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ATOM	1498	OG	SER	113	-11.178	31.598	-27.029	40.79	O
ATOM	1499	HG	SER	113	-10.758	32.319	-27.518	0.00	H
ATOM	1500	C	SER	113	-13.090	30.730	-24.985	38.02	C
ATOM	1501	O	SER	113	-13.795	30.781	-23.977	39.50	O
ATOM	1502	N	ARG	114	-13.596	30.767	-26.216	37.69	N
ATOM	1503	HN	ARG	114	-12.974	30.714	-27.008	0.00	H
ATOM	1504	CA	ARG	114	-15.040	30.883	-26.426	38.12	C
ATOM	1505	HA	ARG	114	-15.330	31.897	-26.333	0.00	H
ATOM	1506	CB	ARG	114	-15.435	30.388	-27.815	35.36	C
ATOM	1507	HB2	ARG	114	-15.064	31.057	-28.547	0.00	H
ATOM	1508	HB3	ARG	114	-15.025	29.425	-27.976	0.00	H
ATOM	1509	CG	ARG	114	-16.950	30.288	-27.998	36.93	C
ATOM	1510	HG2	ARG	114	-17.287	29.349	-27.642	0.00	H
ATOM	1511	HG3	ARG	114	-17.423	31.063	-27.453	0.00	H
ATOM	1512	CD	ARG	114	-17.369	30.415	-29.455	37.09	C
ATOM	1513	HD2	ARG	114	-17.036	31.344	-29.838	0.00	H
ATOM	1514	HD3	ARG	114	-16.938	29.627	-30.016	0.00	H
ATOM	1515	NE	ARG	114	-18.815	30.351	-29.634	37.55	N1+
ATOM	1516	HE	ARG	114	-19.384	29.853	-28.967	0.00	H
ATOM	1517	CZ	ARG	114	-19.468	30.920	-30.647	39.74	C
ATOM	1518	NH1	ARG	114	-18.802	31.601	-31.569	39.37	N
ATOM	1519	HH11	ARG	114	-19.298	32.031	-32.335	0.00	H
ATOM	1520	HH12	ARG	114	-17.799	31.689	-31.505	0.00	H
ATOM	1521	NH2	ARG	114	-20.789	30.807	-30.749	39.54	N
ATOM	1522	HH21	ARG	114	-21.274	31.241	-31.520	0.00	H
ATOM	1523	HH22	ARG	114	-21.306	30.287	-30.056	0.00	H
ATOM	1524	C	ARG	114	-15.835	30.114	-25.374	39.60	C
ATOM	1525	O	ARG	114	-16.846	30.608	-24.864	39.60	O
ATOM	1526	N	ALA	115	-15.366	28.909	-25.056	39.72	N
ATOM	1527	HN	ALA	115	-14.533	28.591	-25.529	0.00	H
ATOM	1528	CA	ALA	115	-16.010	28.058	-24.065	39.27	C
ATOM	1529	HA	ALA	115	-17.062	28.138	-24.161	0.00	H
ATOM	1530	CB	ALA	115	-15.595	26.608	-24.278	39.55	C
ATOM	1531	HB1	ALA	115	-15.886	26.296	-25.248	0.00	H
ATOM	1532	HB2	ALA	115	-14.544	26.524	-24.180	0.00	H
ATOM	1533	HB3	ALA	115	-16.067	25.996	-23.554	0.00	H
ATOM	1534	C	ALA	115	-15.651	28.497	-22.647	38.61	C
ATOM	1535	O	ALA	115	-16.522	28.577	-21.774	38.06	O
ATOM	1536	N	VAL	116	-14.369	28.769	-22.417	37.22	N
ATOM	1537	HN	VAL	116	-13.701	28.675	-23.168	0.00	H
ATOM	1538	CA	VAL	116	-13.926	29.199	-21.098	36.81	C
ATOM	1539	HA	VAL	116	-14.188	28.465	-20.381	0.00	H
ATOM	1540	CB	VAL	116	-12.410	29.406	-21.034	35.64	C
ATOM	1541	HB	VAL	116	-12.138	30.220	-21.655	0.00	H
ATOM	1542	CG1	VAL	116	-12.000	29.742	-19.610	34.83	C
ATOM	1543	HG11	VAL	116	-12.489	30.629	-19.302	0.00	H
ATOM	1544	HG12	VAL	116	-12.274	28.946	-18.967	0.00	H
ATOM	1545	HG13	VAL	116	-10.951	29.885	-19.569	0.00	H
ATOM	1546	CG2	VAL	116	-11.700	28.167	-21.505	36.00	C
ATOM	1547	HG21	VAL	116	-11.966	27.351	-20.885	0.00	H
ATOM	1548	HG22	VAL	116	-11.981	27.958	-22.504	0.00	H
ATOM	1549	HG23	VAL	116	-10.653	28.320	-21.457	0.00	H
ATOM	1550	C	VAL	116	-14.581	30.522	-20.754	37.22	C
ATOM	1551	O	VAL	116	-15.062	30.730	-19.644	37.66	O
ATOM	1552	N	ASN	117	-14.602	31.426	-21.716	37.47	N
ATOM	1553	HN	ASN	117	-14.205	31.219	-22.620	0.00	H
ATOM	1554	CA	ASN	117	-15.197	32.717	-21.468	38.32	C
ATOM	1555	HA	ASN	117	-14.892	33.069	-20.517	0.00	H
ATOM	1556	CB	ASN	117	-14.747	33.710	-22.546	40.83	C
ATOM	1557	HB2	ASN	117	-15.035	33.351	-23.499	0.00	H
ATOM	1558	HB3	ASN	117	-15.201	34.651	-22.371	0.00	H
ATOM	1559	CG	ASN	117	-13.226	33.910	-22.553	41.85	C
ATOM	1560	OD1	ASN	117	-12.630	34.335	-21.551	42.11	O
ATOM	1561	ND2	ASN	117	-12.594	33.595	-23.682	41.57	N
ATOM	1562	HD21	ASN	117	-13.117	33.253	-24.474	0.00	H
ATOM	1563	HD22	ASN	117	-11.592	33.699	-23.745	0.00	H
ATOM	1564	C	ASN	117	-16.715	32.611	-21.377	37.58	C
ATOM	1565	O	ASN	117	-17.358	33.455	-20.755	39.64	O
ATOM	1566	N	HIS	118	-17.300	31.580	-21.978	35.65	N
ATOM	1567	HN	HIS	118	-16.758	30.912	-22.506	0.00	H
ATOM	1568	CA	HIS	118	-18.745	31.421	-21.867	34.78	C
ATOM	1569	HA	HIS	118	-19.214	32.363	-21.984	0.00	H
ATOM	1570	CB	HIS	118	-19.319	30.477	-22.926	34.90	C
ATOM	1571	HB2	HIS	118	-19.219	30.918	-23.884	0.00	H
ATOM	1572	HB3	HIS	118	-18.792	29.559	-22.904	0.00	H

ATOM	1573	CG	HIS	118	-20.772	30.170	-22.718	35.63	C
ATOM	1574	CD2	HIS	118	-21.879	30.935	-22.889	35.80	C
ATOM	1575	HD2	HIS	118	-21.790	31.928	-23.297	0.00	H
ATOM	1576	ND1	HIS	118	-21.213	28.974	-22.192	35.88	N1+
ATOM	1577	HD1	HIS	118	-20.552	28.240	-21.984	0.00	H
ATOM	1578	CE1	HIS	118	-22.527	29.016	-22.046	35.43	C
ATOM	1579	HE1	HIS	118	-23.052	28.166	-21.644	0.00	H
ATOM	1580	NE2	HIS	118	-22.955	30.195	-22.461	34.66	N
ATOM	1581	HE2	HIS	118	-23.884	30.586	-22.501	0.00	H
ATOM	1582	C	HIS	118	-19.040	30.850	-20.492	34.73	C
ATOM	1583	O	HIS	118	-20.007	31.246	-19.843	35.59	O
ATOM	1584	N	ILE	119	-18.209	29.909	-20.053	33.06	N
ATOM	1585	HN	ILE	119	-17.450	29.612	-20.648	0.00	H
ATOM	1586	CA	ILE	119	-18.380	29.309	-18.739	31.47	C
ATOM	1587	HA	ILE	119	-19.347	28.882	-18.669	0.00	H
ATOM	1588	CB	ILE	119	-17.351	28.215	-18.486	29.95	C
ATOM	1589	HB	ILE	119	-16.386	28.575	-18.730	0.00	H
ATOM	1590	CG2	ILE	119	-17.387	27.815	-17.018	27.71	C
ATOM	1591	HG21	ILE	119	-17.162	28.657	-16.417	0.00	H
ATOM	1592	HG22	ILE	119	-18.353	27.455	-16.774	0.00	H
ATOM	1593	HG23	ILE	119	-16.672	27.054	-16.842	0.00	H
ATOM	1594	CG1	ILE	119	-17.634	27.026	-19.413	29.32	C
ATOM	1595	HG12	ILE	119	-18.487	26.503	-19.066	0.00	H
ATOM	1596	HG13	ILE	119	-17.812	27.379	-20.396	0.00	H
ATOM	1597	CD1	ILE	119	-16.511	26.034	-19.496	27.36	C
ATOM	1598	HD11	ILE	119	-15.641	26.515	-19.862	0.00	H
ATOM	1599	HD12	ILE	119	-16.317	25.639	-18.533	0.00	H
ATOM	1600	HD13	ILE	119	-16.782	25.248	-20.152	0.00	H
ATOM	1601	C	ILE	119	-18.227	30.376	-17.670	31.91	C
ATOM	1602	O	ILE	119	-19.056	30.466	-16.768	33.88	O
ATOM	1603	N	ARG	120	-17.164	31.174	-17.762	31.22	N
ATOM	1604	HN	ARG	120	-16.503	31.022	-18.509	0.00	H
ATOM	1605	CA	ARG	120	-16.947	32.253	-16.805	30.11	C
ATOM	1606	HA	ARG	120	-16.718	31.842	-15.856	0.00	H
ATOM	1607	CB	ARG	120	-15.789	33.156	-17.235	33.89	C
ATOM	1608	HB2	ARG	120	-15.918	33.438	-18.248	0.00	H
ATOM	1609	HB3	ARG	120	-15.773	34.023	-16.627	0.00	H
ATOM	1610	CG	ARG	120	-14.388	32.581	-17.153	40.57	C
ATOM	1611	HG2	ARG	120	-14.317	31.942	-16.312	0.00	H
ATOM	1612	HG3	ARG	120	-14.180	32.030	-18.033	0.00	H
ATOM	1613	CD	ARG	120	-13.386	33.738	-17.014	44.87	C
ATOM	1614	HD2	ARG	120	-13.463	34.375	-17.857	0.00	H
ATOM	1615	HD3	ARG	120	-13.602	34.288	-16.135	0.00	H
ATOM	1616	NE	ARG	120	-11.996	33.299	-16.924	49.07	N1+
ATOM	1617	HE	ARG	120	-11.599	33.062	-16.027	0.00	H
ATOM	1618	CZ	ARG	120	-11.180	33.182	-17.969	52.73	C
ATOM	1619	NH1	ARG	120	-11.609	33.472	-19.195	53.89	N
ATOM	1620	HH11	ARG	120	-10.985	33.381	-19.983	0.00	H
ATOM	1621	HH12	ARG	120	-12.558	33.783	-19.337	0.00	H
ATOM	1622	NH2	ARG	120	-9.928	32.781	-17.789	53.49	N
ATOM	1623	HH21	ARG	120	-9.308	32.692	-18.580	0.00	H
ATOM	1624	HH22	ARG	120	-9.596	32.565	-16.861	0.00	H
ATOM	1625	C	ARG	120	-18.215	33.097	-16.812	28.34	C
ATOM	1626	O	ARG	120	-18.641	33.621	-15.782	27.11	O
ATOM	1627	N	SER	121	-18.795	33.223	-18.004	25.59	N
ATOM	1628	HN	SER	121	-18.346	32.745	-18.771	0.00	H
ATOM	1629	CA	SER	121	-20.003	33.992	-18.236	23.58	C
ATOM	1630	HA	SER	121	-19.865	34.981	-17.883	0.00	H
ATOM	1631	CB	SER	121	-20.308	34.022	-19.744	25.49	C
ATOM	1632	HB2	SER	121	-19.499	34.470	-20.259	0.00	H
ATOM	1633	HB3	SER	121	-20.446	33.033	-20.096	0.00	H
ATOM	1634	OG	SER	121	-21.481	34.759	-20.061	29.10	O
ATOM	1635	HG	SER	121	-21.623	34.744	-21.017	0.00	H
ATOM	1636	C	SER	121	-21.165	33.382	-17.470	22.60	C
ATOM	1637	O	SER	121	-21.856	34.071	-16.721	21.97	O
ATOM	1638	N	VAL	122	-21.374	32.082	-17.653	21.39	N
ATOM	1639	HN	VAL	122	-20.760	31.573	-18.271	0.00	H
ATOM	1640	CA	VAL	122	-22.464	31.393	-16.981	18.09	C
ATOM	1641	HA	VAL	122	-23.384	31.849	-17.241	0.00	H
ATOM	1642	CB	VAL	122	-22.531	29.906	-17.380	14.59	C
ATOM	1643	HB	VAL	122	-21.584	29.457	-17.230	0.00	H
ATOM	1644	CG1	VAL	122	-23.552	29.183	-16.532	12.51	C
ATOM	1645	HG11	VAL	122	-23.279	29.256	-15.512	0.00	H
ATOM	1646	HG12	VAL	122	-24.505	29.623	-16.675	0.00	H
ATOM	1647	HG13	VAL	122	-23.588	28.163	-16.816	0.00	H

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ATOM   1648  CG2 VAL   122     -22.915  29.783 -18.831       10.21           C
ATOM   1649 HG21 VAL   122     -23.863  30.229 -18.984        0.00           H
ATOM   1650 HG22 VAL   122     -22.193  30.274 -19.430        0.00           H
ATOM   1651 HG23 VAL   122     -22.959  28.759 -19.099        0.00           H
ATOM   1652  C   VAL   122     -22.329  31.489 -15.481       19.39           C
ATOM   1653  O   VAL   122     -23.334  31.517 -14.766       20.60           O
ATOM   1654  N   TRP   123     -21.086  31.551 -15.007       20.44           N
ATOM   1655  HN  TRP   123     -20.327  31.540 -15.672        0.00           H
ATOM   1656  CA  TRP   123     -20.802  31.633 -13.571       20.42           C
ATOM   1657  HA  TRP   123     -21.445  30.975 -13.046        0.00           H
ATOM   1658  CB  TRP   123     -19.344  31.236 -13.310       20.13           C
ATOM   1659  HB2 TRP   123     -19.190  30.235 -13.620        0.00           H
ATOM   1660  HB3 TRP   123     -18.701  31.877 -13.855        0.00           H
ATOM   1661  CG  TRP   123     -18.924  31.320 -11.849       22.26           C
ATOM   1662  CD2 TRP   123     -18.945  30.264 -10.884       20.26           C
ATOM   1663  CE2 TRP   123     -18.454  30.795  -9.671       22.29           C
ATOM   1664  CE3 TRP   123     -19.330  28.921 -10.926       21.39           C
ATOM   1665  HE3 TRP   123     -19.709  28.498 -11.841        0.00           H
ATOM   1666  CD1 TRP   123     -18.437  32.420 -11.195       21.85           C
ATOM   1667  HD1 TRP   123     -18.329  33.354 -11.719        0.00           H
ATOM   1668  NE1 TRP   123     -18.152  32.112  -9.891       20.56           N
ATOM   1669  HE1 TRP   123     -17.781  32.820  -9.275        0.00           H
ATOM   1670  CZ2 TRP   123     -18.335  30.021  -8.501       24.67           C
ATOM   1671  HZ2 TRP   123     -17.955  30.466  -7.597        0.00           H
ATOM   1672  CZ3 TRP   123     -19.212  28.146  -9.761       22.73           C
ATOM   1673  HZ3 TRP   123     -19.502  27.109  -9.773        0.00           H
ATOM   1674  CH2 TRP   123     -18.718  28.702  -8.567       23.61           C
ATOM   1675  HH2 TRP   123     -18.642  28.075  -7.695        0.00           H
ATOM   1676  C   TRP   123     -21.117  33.000 -12.955       19.63           C
ATOM   1677  O   TRP   123     -21.711  33.080 -11.880       18.48           O
ATOM   1678  N   GLU   124     -20.717  34.073 -13.626       20.42           N
ATOM   1679  HN  GLU   124     -20.204  33.965 -14.488        0.00           H
ATOM   1680  CA  GLU   124     -21.016  35.397 -13.122       21.19           C
ATOM   1681  HA  GLU   124     -20.552  35.529 -12.179        0.00           H
ATOM   1682  CB  GLU   124     -20.503  36.477 -14.075       26.21           C
ATOM   1683  HB2 GLU   124     -20.944  36.345 -15.029        0.00           H
ATOM   1684  HB3 GLU   124     -20.759  37.432 -13.697        0.00           H
ATOM   1685  CG  GLU   124     -18.992  36.497 -14.301       33.79           C
ATOM   1686  HG2 GLU   124     -18.712  35.662 -14.889        0.00           H
ATOM   1687  HG3 GLU   124     -18.722  37.389 -14.804        0.00           H
ATOM   1688  CD  GLU   124     -18.202  36.438 -13.005       38.82           C
ATOM   1689  OE1 GLU   124     -18.571  37.162 -12.046       41.01           O1-
ATOM   1690  OE2 GLU   124     -17.205  35.670 -12.953       42.18           O
ATOM   1691  C   GLU   124     -22.538  35.481 -13.021       20.62           C
ATOM   1692  O   GLU   124     -23.070  36.098 -12.101       20.82           O
ATOM   1693  N   ASP   125     -23.237  34.844 -13.958       18.69           N
ATOM   1694  HN  ASP   125     -22.739  34.345 -14.680        0.00           H
ATOM   1695  CA  ASP   125     -24.698  34.858 -13.955       17.87           C
ATOM   1696  HA  ASP   125     -25.041  35.859 -13.928        0.00           H
ATOM   1697  CB  ASP   125     -25.248  34.181 -15.210       18.11           C
ATOM   1698  HB2 ASP   125     -24.813  34.623 -16.069        0.00           H
ATOM   1699  HB3 ASP   125     -25.012  33.149 -15.186        0.00           H
ATOM   1700  CG  ASP   125     -26.759  34.315 -15.327       18.38           C
ATOM   1701  OD1 ASP   125     -27.225  35.399 -15.713       19.85           O
ATOM   1702  OD2 ASP   125     -27.489  33.346 -15.020       17.26           O1-
ATOM   1703  C   ASP   125     -25.294  34.178 -12.722       18.71           C
ATOM   1704  O   ASP   125     -26.365  34.549 -12.263       20.08           O
ATOM   1705  N   LEU   126     -24.624  33.163 -12.196       18.89           N
ATOM   1706  HN  LEU   126     -23.761  32.850 -12.615        0.00           H
ATOM   1707  CA  LEU   126     -25.137  32.501 -11.010       18.10           C
ATOM   1708  HA  LEU   126     -26.156  32.252 -11.158        0.00           H
ATOM   1709  CB  LEU   126     -24.350  31.227 -10.731       17.06           C
ATOM   1710  HB2 LEU   126     -23.313  31.435 -10.782        0.00           H
ATOM   1711  HB3 LEU   126     -24.591  30.868  -9.765        0.00           H
ATOM   1712  CG  LEU   126     -24.629  30.095 -11.713       17.30           C
ATOM   1713  HG  LEU   126     -24.386  30.411 -12.694        0.00           H
ATOM   1714  CD1 LEU   126     -23.790  28.884 -11.354       18.59           C
ATOM   1715 HD11 LEU   126     -22.763  29.140 -11.398        0.00           H
ATOM   1716 HD12 LEU   126     -24.032  28.565 -10.374        0.00           H
ATOM   1717 HD13 LEU   126     -23.988  28.101 -12.039        0.00           H
ATOM   1718  CD2 LEU   126     -26.116  29.755 -11.677       14.18           C
ATOM   1719 HD21 LEU   126     -26.385  29.451 -10.699        0.00           H
ATOM   1720 HD22 LEU   126     -26.680  30.609 -11.949        0.00           H
ATOM   1721 HD23 LEU   126     -26.315  28.969 -12.358        0.00           H
ATOM   1722  C   LEU   126     -25.030  33.445  -9.820       18.82           C
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ATOM	1723	O	LEU	126	-25.820	33.368	-8.891	17.76	O
ATOM	1724	N	LEU	127	-24.052	34.343	-9.861	20.16	N
ATOM	1725	HN	LEU	127	-23.444	34.356	-10.666	0.00	H
ATOM	1726	CA	LEU	127	-23.847	35.294	-8.779	21.92	C
ATOM	1727	HA	LEU	127	-24.139	34.853	-7.861	0.00	H
ATOM	1728	CB	LEU	127	-22.370	35.695	-8.692	21.18	C
ATOM	1729	HB2	LEU	127	-22.127	36.325	-9.508	0.00	H
ATOM	1730	HB3	LEU	127	-22.197	36.211	-7.784	0.00	H
ATOM	1731	CG	LEU	127	-21.301	34.590	-8.721	22.83	C
ATOM	1732	HG	LEU	127	-21.405	34.021	-9.608	0.00	H
ATOM	1733	CD1	LEU	127	-19.900	35.206	-8.684	18.95	C
ATOM	1734	HD11	LEU	127	-19.769	35.836	-9.525	0.00	H
ATOM	1735	HD12	LEU	127	-19.787	35.773	-7.797	0.00	H
ATOM	1736	HD13	LEU	127	-19.175	34.435	-8.704	0.00	H
ATOM	1737	CD2	LEU	127	-21.505	33.646	-7.548	22.94	C
ATOM	1738	HD21	LEU	127	-21.425	34.187	-6.641	0.00	H
ATOM	1739	HD22	LEU	127	-22.466	33.206	-7.612	0.00	H
ATOM	1740	HD23	LEU	127	-20.767	32.887	-7.573	0.00	H
ATOM	1741	C	LEU	127	-24.694	36.541	-8.990	23.26	C
ATOM	1742	O	LEU	127	-25.059	37.220	-8.031	24.25	O
ATOM	1743	N	GLU	128	-25.015	36.839	-10.243	23.80	N
ATOM	1744	HN	GLU	128	-24.709	36.228	-10.986	0.00	H
ATOM	1745	CA	GLU	128	-25.796	38.026	-10.553	23.62	C
ATOM	1746	HA	GLU	128	-25.638	38.758	-9.804	0.00	H
ATOM	1747	CB	GLU	128	-25.364	38.584	-11.906	24.43	C
ATOM	1748	HB2	GLU	128	-25.352	37.804	-12.622	0.00	H
ATOM	1749	HB3	GLU	128	-26.046	39.334	-12.213	0.00	H
ATOM	1750	CG	GLU	128	-23.985	39.213	-11.919	25.59	C
ATOM	1751	HG2	GLU	128	-23.287	38.542	-11.491	0.00	H
ATOM	1752	HG3	GLU	128	-23.703	39.426	-12.917	0.00	H
ATOM	1753	CD	GLU	128	-23.941	40.496	-11.137	28.52	C
ATOM	1754	OE1	GLU	128	-24.973	41.195	-11.085	31.60	O1-
ATOM	1755	OE2	GLU	128	-22.875	40.820	-10.583	31.09	O
ATOM	1756	C	GLU	128	-27.300	37.809	-10.555	24.09	C
ATOM	1757	O	GLU	128	-28.060	38.745	-10.305	26.52	O
ATOM	1758	N	ASP	129	-27.726	36.581	-10.840	24.11	N
ATOM	1759	HN	ASP	129	-27.023	35.878	-11.012	0.00	H
ATOM	1760	CA	ASP	129	-29.147	36.229	-10.910	22.46	C
ATOM	1761	HA	ASP	129	-29.732	37.064	-10.625	0.00	H
ATOM	1762	CB	ASP	129	-29.504	35.822	-12.342	22.05	C
ATOM	1763	HB2	ASP	129	-29.149	36.557	-13.017	0.00	H
ATOM	1764	HB3	ASP	129	-29.054	34.890	-12.567	0.00	H
ATOM	1765	CG	ASP	129	-30.999	35.679	-12.555	23.61	C
ATOM	1766	OD1	ASP	129	-31.698	35.150	-11.659	25.92	O
ATOM	1767	OD2	ASP	129	-31.480	36.086	-13.632	22.46	O1-
ATOM	1768	C	ASP	129	-29.471	35.073	-9.958	22.00	C
ATOM	1769	O	ASP	129	-28.911	33.980	-10.063	20.81	O
ATOM	1770	N	THR	130	-30.398	35.309	-9.040	20.99	N
ATOM	1771	HN	THR	130	-30.854	36.209	-9.026	0.00	H
ATOM	1772	CA	THR	130	-30.760	34.296	-8.065	21.00	C
ATOM	1773	HA	THR	130	-30.056	33.505	-8.100	0.00	H
ATOM	1774	CB	THR	130	-30.774	34.886	-6.642	20.41	C
ATOM	1775	HB	THR	130	-31.091	34.145	-5.956	0.00	H
ATOM	1776	OG1	THR	130	-31.694	35.983	-6.607	19.88	O
ATOM	1777	HG1	THR	130	-31.711	36.361	-5.717	0.00	H
ATOM	1778	CG2	THR	130	-29.386	35.372	-6.220	16.94	C
ATOM	1779	HG21	THR	130	-28.707	34.560	-6.238	0.00	H
ATOM	1780	HG22	THR	130	-29.056	36.123	-6.890	0.00	H
ATOM	1781	HG23	THR	130	-29.434	35.770	-5.240	0.00	H
ATOM	1782	C	THR	130	-32.132	33.686	-8.300	22.98	C
ATOM	1783	O	THR	130	-32.558	32.840	-7.520	24.88	O
ATOM	1784	N	GLU	131	-32.832	34.077	-9.360	23.17	N
ATOM	1785	HN	GLU	131	-32.463	34.735	-10.030	0.00	H
ATOM	1786	CA	GLU	131	-34.166	33.527	-9.540	24.68	C
ATOM	1787	HA	GLU	131	-34.317	32.735	-8.854	0.00	H
ATOM	1788	CB	GLU	131	-35.212	34.613	-9.295	27.45	C
ATOM	1789	HB2	GLU	131	-35.236	35.273	-10.123	0.00	H
ATOM	1790	HB3	GLU	131	-36.164	34.165	-9.173	0.00	H
ATOM	1791	CG	GLU	131	-34.974	35.468	-8.066	35.98	C
ATOM	1792	HG2	GLU	131	-35.265	34.931	-7.201	0.00	H
ATOM	1793	HG3	GLU	131	-33.946	35.713	-8.000	0.00	H
ATOM	1794	CD	GLU	131	-35.773	36.775	-8.107	40.16	C
ATOM	1795	OE1	GLU	131	-35.788	37.426	-9.184	42.18	O1-
ATOM	1796	OE2	GLU	131	-36.375	37.153	-7.068	39.93	O
ATOM	1797	C	GLU	131	-34.491	32.855	-10.861	23.94	C

ATOM	1798	O	GLU	131	-35.004	31.738	-10.877	25.81	O
ATOM	1799	N	THR	132	-34.216	33.538	-11.964	21.89	N
ATOM	1800	HN	THR	132	-33.770	34.438	-11.872	0.00	H
ATOM	1801	CA	THR	132	-34.543	33.017	-13.289	20.25	C
ATOM	1802	HA	THR	132	-35.589	33.079	-13.445	0.00	H
ATOM	1803	CB	THR	132	-33.848	33.801	-14.403	17.61	C
ATOM	1804	HB	THR	132	-32.881	33.401	-14.566	0.00	H
ATOM	1805	OG1	THR	132	-33.745	35.181	-14.031	17.88	O
ATOM	1806	HG1	THR	132	-33.305	35.673	-14.738	0.00	H
ATOM	1807	CG2	THR	132	-34.661	33.695	-15.678	12.77	C
ATOM	1808	HG21	THR	132	-34.743	32.678	-15.961	0.00	H
ATOM	1809	HG22	THR	132	-35.628	34.095	-15.515	0.00	H
ATOM	1810	HG23	THR	132	-34.180	34.238	-16.450	0.00	H
ATOM	1811	C	THR	132	-34.239	31.549	-13.526	21.20	C
ATOM	1812	O	THR	132	-33.092	31.110	-13.396	22.45	O
ATOM	1813	N	PRO	133	-35.274	30.768	-13.878	19.95	N
ATOM	1814	CD	PRO	133	-36.705	31.113	-13.827	17.34	C
ATOM	1815	HD2	PRO	133	-36.881	31.768	-13.014	0.00	H
ATOM	1816	HD3	PRO	133	-36.986	31.589	-14.731	0.00	H
ATOM	1817	CA	PRO	133	-35.101	29.340	-14.141	19.10	C
ATOM	1818	HA	PRO	133	-34.733	28.863	-13.270	0.00	H
ATOM	1819	CB	PRO	133	-36.509	28.891	-14.510	18.63	C
ATOM	1820	HB2	PRO	133	-36.672	29.054	-15.544	0.00	H
ATOM	1821	HB3	PRO	133	-36.619	27.860	-14.294	0.00	H
ATOM	1822	CG	PRO	133	-37.353	29.758	-13.646	17.10	C
ATOM	1823	HG2	PRO	133	-38.355	29.729	-13.988	0.00	H
ATOM	1824	HG3	PRO	133	-37.311	29.409	-12.647	0.00	H
ATOM	1825	C	PRO	133	-34.115	29.123	-15.276	18.79	C
ATOM	1826	O	PRO	133	-34.070	29.896	-16.232	17.29	O
ATOM	1827	N	ILE	134	-33.318	28.071	-15.152	19.03	N
ATOM	1828	HN	ILE	134	-33.415	27.499	-14.327	0.00	H
ATOM	1829	CA	ILE	134	-32.327	27.731	-16.160	19.71	C
ATOM	1830	HA	ILE	134	-32.071	28.599	-16.710	0.00	H
ATOM	1831	CB	ILE	134	-31.055	27.164	-15.485	20.61	C
ATOM	1832	HB	ILE	134	-31.333	26.489	-14.718	0.00	H
ATOM	1833	CG2	ILE	134	-30.196	26.431	-16.495	19.45	C
ATOM	1834	HG21	ILE	134	-30.748	25.630	-16.913	0.00	H
ATOM	1835	HG22	ILE	134	-29.907	27.099	-17.264	0.00	H
ATOM	1836	HG23	ILE	134	-29.332	26.051	-16.014	0.00	H
ATOM	1837	CG1	ILE	134	-30.302	28.318	-14.799	22.58	C
ATOM	1838	HG12	ILE	134	-29.843	28.926	-15.534	0.00	H
ATOM	1839	HG13	ILE	134	-30.985	28.899	-14.236	0.00	H
ATOM	1840	CD1	ILE	134	-29.198	27.902	-13.837	20.58	C
ATOM	1841	HD11	ILE	134	-29.610	27.312	-13.060	0.00	H
ATOM	1842	HD12	ILE	134	-28.469	27.339	-14.359	0.00	H
ATOM	1843	HD13	ILE	134	-28.747	28.766	-13.423	0.00	H
ATOM	1844	C	ILE	134	-32.929	26.714	-17.115	19.69	C
ATOM	1845	O	ILE	134	-33.637	25.802	-16.701	20.32	O
ATOM	1846	N	ASP	135	-32.665	26.869	-18.402	20.28	N
ATOM	1847	HN	ASP	135	-32.076	27.623	-18.723	0.00	H
ATOM	1848	CA	ASP	135	-33.235	25.938	-19.356	21.47	C
ATOM	1849	HA	ASP	135	-34.273	25.837	-19.174	0.00	H
ATOM	1850	CB	ASP	135	-33.033	26.434	-20.795	23.35	C
ATOM	1851	HB2	ASP	135	-33.289	27.460	-20.854	0.00	H
ATOM	1852	HB3	ASP	135	-32.019	26.307	-21.073	0.00	H
ATOM	1853	CG	ASP	135	-33.898	25.671	-21.795	29.12	C
ATOM	1854	OD1	ASP	135	-34.919	25.084	-21.357	30.20	O
ATOM	1855	OD2	ASP	135	-33.576	25.661	-23.009	30.84	O1-
ATOM	1856	C	ASP	135	-32.664	24.537	-19.202	20.18	C
ATOM	1857	O	ASP	135	-31.554	24.360	-18.698	19.94	O
ATOM	1858	N	THR	136	-33.466	23.552	-19.606	19.91	N
ATOM	1859	HN	THR	136	-34.375	23.830	-19.944	0.00	H
ATOM	1860	CA	THR	136	-33.096	22.133	-19.580	18.57	C
ATOM	1861	HA	THR	136	-32.041	22.043	-19.595	0.00	H
ATOM	1862	CB	THR	136	-33.608	21.384	-18.324	14.86	C
ATOM	1863	HB	THR	136	-33.437	20.345	-18.439	0.00	H
ATOM	1864	OG1	THR	136	-35.018	21.576	-18.196	13.45	O
ATOM	1865	HG1	THR	136	-35.337	21.108	-17.412	0.00	H
ATOM	1866	CG2	THR	136	-32.893	21.856	-17.075	14.33	C
ATOM	1867	HG21	THR	136	-31.854	21.678	-17.174	0.00	H
ATOM	1868	HG22	THR	136	-33.062	22.893	-16.942	0.00	H
ATOM	1869	HG23	THR	136	-33.263	21.327	-16.235	0.00	H
ATOM	1870	C	THR	136	-33.676	21.421	-20.804	19.76	C
ATOM	1871	O	THR	136	-34.744	21.776	-21.320	19.13	O
ATOM	1872	N	THR	137	-32.948	20.413	-21.259	20.66	N

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ATOM   1873  HN  THR   137     -32.091  20.204 -20.769        0.00           H
ATOM   1874  CA  THR   137     -33.336  19.622 -22.409       20.93           C
ATOM   1875  HA  THR   137     -34.079  20.139 -22.959        0.00           H
ATOM   1876  CB  THR   137     -32.122  19.362 -23.333       20.28           C
ATOM   1877  HB  THR   137     -31.306  19.014 -22.754        0.00           H
ATOM   1878  OG1 THR   137     -31.737  20.584 -23.972       16.31           O
ATOM   1879  HG1 THR   137     -30.978  20.421 -24.549        0.00           H
ATOM   1880  CG2 THR   137     -32.461  18.313 -24.387       18.83           C
ATOM   1881 HG21 THR   137     -32.728  17.406 -23.909        0.00           H
ATOM   1882 HG22 THR   137     -33.272  18.654 -24.976        0.00           H
ATOM   1883 HG23 THR   137     -31.618  18.151 -25.007        0.00           H
ATOM   1884  C   THR   137     -33.845  18.290 -21.902       23.09           C
ATOM   1885  O   THR   137     -33.193  17.653 -21.070       22.58           O
ATOM   1886  N   ILE   138     -35.014  17.881 -22.382       25.15           N
ATOM   1887  HN  ILE   138     -35.513  18.471 -23.031        0.00           H
ATOM   1888  CA  ILE   138     -35.576  16.602 -21.983       28.09           C
ATOM   1889  HA  ILE   138     -35.016  16.207 -21.175        0.00           H
ATOM   1890  CB  ILE   138     -37.054  16.736 -21.531       26.41           C
ATOM   1891  HB  ILE   138     -37.101  17.313 -20.644        0.00           H
ATOM   1892  CG2 ILE   138     -37.864  17.409 -22.594       26.14           C
ATOM   1893 HG21 ILE   138     -37.471  18.375 -22.779        0.00           H
ATOM   1894 HG22 ILE   138     -37.825  16.835 -23.483        0.00           H
ATOM   1895 HG23 ILE   138     -38.869  17.493 -22.272        0.00           H
ATOM   1896  CG1 ILE   138     -37.629  15.353 -21.209       26.64           C
ATOM   1897 HG12 ILE   138     -37.755  14.805 -22.107        0.00           H
ATOM   1898 HG13 ILE   138     -36.963  14.834 -20.569        0.00           H
ATOM   1899  CD1 ILE   138     -38.978  15.389 -20.515       27.75           C
ATOM   1900 HD11 ILE   138     -38.889  15.911 -19.598        0.00           H
ATOM   1901 HD12 ILE   138     -39.681  15.882 -21.135        0.00           H
ATOM   1902 HD13 ILE   138     -39.305  14.399 -20.328        0.00           H
ATOM   1903  C   ILE   138     -35.472  15.688 -23.189       29.97           C
ATOM   1904  O   ILE   138     -35.634  16.131 -24.314       31.27           O
ATOM   1905  N   MET   139     -35.172  14.418 -22.963       33.68           N
ATOM   1906  HN  MET   139     -35.031  14.102 -22.015        0.00           H
ATOM   1907  CA  MET   139     -35.046  13.481 -24.069       37.12           C
ATOM   1908  HA  MET   139     -35.667  13.792 -24.868        0.00           H
ATOM   1909  CB  MET   139     -33.600  13.418 -24.564       38.52           C
ATOM   1910  HB2 MET   139     -32.966  13.133 -23.765        0.00           H
ATOM   1911  HB3 MET   139     -33.525  12.707 -25.345        0.00           H
ATOM   1912  CG  MET   139     -33.051  14.713 -25.108       41.87           C
ATOM   1913  HG2 MET   139     -33.820  15.441 -25.129        0.00           H
ATOM   1914  HG3 MET   139     -32.262  15.050 -24.487        0.00           H
ATOM   1915  SD  MET   139     -32.421  14.473 -26.783       48.40           S
ATOM   1916  CE  MET   139     -31.113  13.199 -26.447       46.56           C
ATOM   1917  HE1 MET   139     -30.401  13.594 -25.770        0.00           H
ATOM   1918  HE2 MET   139     -31.560  12.337 -26.026        0.00           H
ATOM   1919  HE3 MET   139     -30.632  12.940 -27.354        0.00           H
ATOM   1920  C   MET   139     -35.457  12.094 -23.633       38.13           C
ATOM   1921  O   MET   139     -35.459  11.787 -22.443       37.58           O
ATOM   1922  N   ALA   140     -35.813  11.260 -24.601       39.79           N
ATOM   1923  HN  ALA   140     -35.828  11.590 -25.554        0.00           H
ATOM   1924  CA  ALA   140     -36.179   9.887 -24.302       40.58           C
ATOM   1925  HA  ALA   140     -36.683   9.851 -23.372        0.00           H
ATOM   1926  CB  ALA   140     -37.089   9.340 -25.378       38.74           C
ATOM   1927  HB1 ALA   140     -37.968   9.928 -25.430        0.00           H
ATOM   1928  HB2 ALA   140     -36.589   9.369 -26.311        0.00           H
ATOM   1929  HB3 ALA   140     -37.347   8.339 -25.147        0.00           H
ATOM   1930  C   ALA   140     -34.839   9.176 -24.319       41.38           C
ATOM   1931  O   ALA   140     -34.109   9.274 -25.300       41.74           O
ATOM   1932  N   LYS   141     -34.500   8.482 -23.239       43.66           N
ATOM   1933  HN  LYS   141     -35.135   8.431 -22.457        0.00           H
ATOM   1934  CA  LYS   141     -33.214   7.795 -23.181       47.34           C
ATOM   1935  HA  LYS   141     -32.457   8.429 -23.564        0.00           H
ATOM   1936  CB  LYS   141     -32.863   7.423 -21.740       47.41           C
ATOM   1937  HB2 LYS   141     -32.910   8.288 -21.131        0.00           H
ATOM   1938  HB3 LYS   141     -33.552   6.702 -21.384        0.00           H
ATOM   1939  CG  LYS   141     -31.475   6.840 -21.608       49.27           C
ATOM   1940  HG2 LYS   141     -31.317   6.127 -22.375        0.00           H
ATOM   1941  HG3 LYS   141     -30.757   7.614 -21.693        0.00           H
ATOM   1942  CD  LYS   141     -31.262   6.144 -20.265       52.61           C
ATOM   1943  HD2 LYS   141     -32.113   5.559 -20.032        0.00           H
ATOM   1944  HD3 LYS   141     -30.409   5.519 -20.323        0.00           H
ATOM   1945  CE  LYS   141     -31.041   7.119 -19.104       52.68           C
ATOM   1946  HE2 LYS   141     -30.211   7.741 -19.318        0.00           H
ATOM   1947  HE3 LYS   141     -31.906   7.716 -18.975        0.00           H
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ATOM	1948	NZ	LYS	141	-30.773	6.378	-17.833	50.97	N1+
ATOM	1949	HZ1	LYS	141	-31.561	5.787	-17.616	0.00	H
ATOM	1950	HZ2	LYS	141	-29.946	5.810	-17.943	0.00	H
ATOM	1951	HZ3	LYS	141	-30.631	7.038	-17.083	0.00	H
ATOM	1952	C	LYS	141	-33.207	6.537	-24.035	48.91	C
ATOM	1953	O	LYS	141	-34.260	5.991	-24.350	49.74	O
ATOM	1954	N	SER	142	-32.016	6.076	-24.404	51.38	N
ATOM	1955	HN	SER	142	-31.194	6.580	-24.107	0.00	H
ATOM	1956	CA	SER	142	-31.879	4.871	-25.219	53.48	C
ATOM	1957	HA	SER	142	-32.837	4.546	-25.533	0.00	H
ATOM	1958	CB	SER	142	-31.018	5.162	-26.454	55.00	C
ATOM	1959	HB2	SER	142	-31.471	5.928	-27.028	0.00	H
ATOM	1960	HB3	SER	142	-30.054	5.474	-26.147	0.00	H
ATOM	1961	OG	SER	142	-30.880	4.008	-27.271	57.04	O
ATOM	1962	HG	SER	142	-30.334	4.221	-28.040	0.00	H
ATOM	1963	C	SER	142	-31.255	3.729	-24.422	53.98	C
ATOM	1964	O	SER	142	-30.069	3.758	-24.100	52.01	O
ATOM	1965	N	GLU	143	-32.069	2.727	-24.106	56.30	N
ATOM	1966	HN	GLU	143	-33.031	2.791	-24.403	0.00	H
ATOM	1967	CA	GLU	143	-31.613	1.561	-23.355	58.28	C
ATOM	1968	HA	GLU	143	-30.554	1.549	-23.331	0.00	H
ATOM	1969	CB	GLU	143	-32.144	1.612	-21.923	58.62	C
ATOM	1970	HB2	GLU	143	-33.202	1.574	-21.937	0.00	H
ATOM	1971	HB3	GLU	143	-31.768	0.786	-21.378	0.00	H
ATOM	1972	CG	GLU	143	-31.742	2.872	-21.179	59.54	C
ATOM	1973	HG2	GLU	143	-30.732	3.104	-21.397	0.00	H
ATOM	1974	HG3	GLU	143	-32.362	3.675	-21.484	0.00	H
ATOM	1975	CD	GLU	143	-31.866	2.747	-19.670	59.80	C
ATOM	1976	OE1	GLU	143	-32.983	2.482	-19.166	59.61	O1-
ATOM	1977	OE2	GLU	143	-30.833	2.925	-18.990	60.17	O
ATOM	1978	C	GLU	143	-32.074	0.274	-24.029	59.73	C
ATOM	1979	O	GLU	143	-33.150	0.228	-24.630	59.94	O
ATOM	1980	N	VAL	144	-31.254	-0.768	-23.924	61.54	N
ATOM	1981	HN	VAL	144	-30.397	-0.648	-23.405	0.00	H
ATOM	1982	CA	VAL	144	-31.565	-2.061	-24.535	63.19	C
ATOM	1983	HA	VAL	144	-32.361	-1.944	-25.223	0.00	H
ATOM	1984	CB	VAL	144	-30.335	-2.616	-25.282	62.38	C
ATOM	1985	HB	VAL	144	-29.527	-2.717	-24.605	0.00	H
ATOM	1986	CG1	VAL	144	-30.643	-3.990	-25.833	62.08	C
ATOM	1987	HG11	VAL	144	-30.891	-4.642	-25.036	0.00	H
ATOM	1988	HG12	VAL	144	-31.459	-3.926	-26.504	0.00	H
ATOM	1989	HG13	VAL	144	-29.794	-4.364	-26.344	0.00	H
ATOM	1990	CG2	VAL	144	-29.936	-1.663	-26.403	61.96	C
ATOM	1991	HG21	VAL	144	-30.741	-1.561	-27.083	0.00	H
ATOM	1992	HG22	VAL	144	-29.698	-0.716	-25.993	0.00	H
ATOM	1993	HG23	VAL	144	-29.091	-2.050	-26.911	0.00	H
ATOM	1994	C	VAL	144	-32.060	-3.100	-23.524	64.36	C
ATOM	1995	O	VAL	144	-31.429	-3.325	-22.491	63.29	O
ATOM	1996	N	PHE	145	-33.194	-3.727	-23.840	66.57	N
ATOM	1997	HN	PHE	145	-33.634	-3.481	-24.714	0.00	H
ATOM	1998	CA	PHE	145	-33.803	-4.740	-22.972	68.60	C
ATOM	1999	HA	PHE	145	-33.081	-5.095	-22.283	0.00	H
ATOM	2000	CB	PHE	145	-34.986	-4.141	-22.192	67.54	C
ATOM	2001	HB2	PHE	145	-35.659	-3.683	-22.869	0.00	H
ATOM	2002	HB3	PHE	145	-35.486	-4.910	-21.663	0.00	H
ATOM	2003	CG	PHE	145	-34.587	-3.097	-21.186	67.89	C
ATOM	2004	CD1	PHE	145	-33.763	-3.424	-20.114	68.05	C
ATOM	2005	HD1	PHE	145	-33.417	-4.436	-19.990	0.00	H
ATOM	2006	CD2	PHE	145	-35.021	-1.779	-21.317	68.45	C
ATOM	2007	HD2	PHE	145	-35.662	-1.502	-22.137	0.00	H
ATOM	2008	CE1	PHE	145	-33.369	-2.450	-19.181	67.58	C
ATOM	2009	HE1	PHE	145	-32.729	-2.720	-18.358	0.00	H
ATOM	2010	CE2	PHE	145	-34.635	-0.796	-20.391	68.63	C
ATOM	2011	HE2	PHE	145	-34.979	0.218	-20.507	0.00	H
ATOM	2012	CZ	PHE	145	-33.806	-1.134	-19.321	67.71	C
ATOM	2013	HZ	PHE	145	-33.504	-0.387	-18.606	0.00	H
ATOM	2014	C	PHE	145	-34.289	-5.961	-23.755	70.05	C
ATOM	2015	O	PHE	145	-34.099	-6.060	-24.972	69.21	O
ATOM	2016	N	CYS	146	-34.932	-6.913	-23.001	71.90	N
ATOM	2017	HN	CYS	146	-35.033	-6.813	-21.991	0.00	H
ATOM	2018	CA	CYS	146	-35.450	-8.145	-23.594	73.93	C
ATOM	2019	HA	CYS	146	-35.357	-8.091	-24.675	0.00	H
ATOM	2020	CB	CYS	146	-34.634	-9.317	-23.072	74.26	C
ATOM	2021	HB2	CYS	146	-33.581	-9.175	-23.320	0.00	H
ATOM	2022	HB3	CYS	146	-34.698	-9.353	-21.984	0.00	H

ATOM	2023	SG	CYS	146	-35.137	-10.953	-23.689	75.43	S
ATOM	2024	HG	CYS	146	-34.322	-11.659	-22.891	0.00	H
ATOM	2025	C	CYS	146	-36.925	-8.275	-23.197	75.37	C
ATOM	2026	O	CYS	146	-37.323	-8.208	-22.034	75.25	O
ATOM	2027	N	VAL	147	-37.764	-8.444	-24.277	77.11	N
ATOM	2028	HN	VAL	147	-37.355	-8.530	-25.195	0.00	H
ATOM	2029	CA	VAL	147	-39.210	-8.548	-24.110	78.44	C
ATOM	2030	HA	VAL	147	-39.577	-7.665	-23.655	0.00	H
ATOM	2031	CB	VAL	147	-39.927	-8.734	-25.488	77.71	C
ATOM	2032	HB	VAL	147	-40.932	-8.411	-25.409	0.00	H
ATOM	2033	CG1	VAL	147	-39.258	-7.870	-26.543	77.21	C
ATOM	2034	HG11	VAL	147	-39.316	-6.853	-26.255	0.00	H
ATOM	2035	HG12	VAL	147	-38.242	-8.153	-26.638	0.00	H
ATOM	2036	HG13	VAL	147	-39.750	-8.002	-27.472	0.00	H
ATOM	2037	CG2	VAL	147	-39.915	-10.198	-25.915	76.79	C
ATOM	2038	HG21	VAL	147	-38.914	-10.531	-26.005	0.00	H
ATOM	2039	HG22	VAL	147	-40.418	-10.782	-25.188	0.00	H
ATOM	2040	HG23	VAL	147	-40.405	-10.297	-26.848	0.00	H
ATOM	2041	C	VAL	147	-39.644	-9.685	-23.186	79.91	C
ATOM	2042	O	VAL	147	-39.101	-10.787	-23.240	80.46	O
ATOM	2043	N	GLN	148	-40.614	-9.408	-22.319	81.30	N
ATOM	2044	HN	GLN	148	-40.979	-8.468	-22.302	0.00	H
ATOM	2045	CA	GLN	148	-41.152	-10.418	-21.407	82.55	C
ATOM	2046	HA	GLN	148	-40.426	-11.172	-21.247	0.00	H
ATOM	2047	CB	GLN	148	-41.516	-9.781	-20.059	83.10	C
ATOM	2048	HB2	GLN	148	-40.632	-9.595	-19.506	0.00	H
ATOM	2049	HB3	GLN	148	-42.027	-8.868	-20.226	0.00	H
ATOM	2050	CG	GLN	148	-42.415	-10.656	-19.200	85.08	C
ATOM	2051	HG2	GLN	148	-43.362	-10.752	-19.664	0.00	H
ATOM	2052	HG3	GLN	148	-41.976	-11.614	-19.091	0.00	H
ATOM	2053	CD	GLN	148	-42.637	-10.090	-17.812	86.57	C
ATOM	2054	OE1	GLN	148	-42.704	-8.869	-17.628	87.09	O
ATOM	2055	NE2	GLN	148	-42.771	-10.974	-16.825	86.79	N
ATOM	2056	HE21	GLN	148	-42.709	-11.962	-17.021	0.00	H
ATOM	2057	HE22	GLN	148	-42.934	-10.656	-15.882	0.00	H
ATOM	2058	C	GLN	148	-42.394	-11.086	-22.031	82.83	C
ATOM	2059	O	GLN	148	-42.296	-12.265	-22.442	82.28	O
ATOM	2060	OXT	GLN	148	-43.450	-10.418	-22.120	83.43	O1-
ATOM	2061	C	GLY	153	-43.550	-5.654	-21.797	66.26	C
ATOM	2062	O	GLY	153	-42.596	-6.427	-21.905	66.14	O
ATOM	2063	N	GLY	153	-44.930	-7.597	-20.945	67.21	N
ATOM	2064	H1	GLY	153	-44.232	-7.812	-20.249	0.00	H
ATOM	2065	H2	GLY	153	-45.843	-7.842	-20.593	0.00	H
ATOM	2066	CA	GLY	153	-44.891	-6.130	-21.256	66.70	C
ATOM	2067	HA2	GLY	153	-45.623	-5.905	-21.987	0.00	H
ATOM	2068	HA3	GLY	153	-45.089	-5.577	-20.375	0.00	H
ATOM	2069	N	ARG	154	-43.481	-4.371	-22.139	65.84	N
ATOM	2070	HN	ARG	154	-44.311	-3.810	-22.017	0.00	H
ATOM	2071	CA	ARG	154	-42.262	-3.766	-22.675	65.48	C
ATOM	2072	HA	ARG	154	-41.428	-4.366	-22.419	0.00	H
ATOM	2073	CB	ARG	154	-42.357	-3.660	-24.197	66.09	C
ATOM	2074	HB2	ARG	154	-42.347	-4.631	-24.620	0.00	H
ATOM	2075	HB3	ARG	154	-43.258	-3.169	-24.461	0.00	H
ATOM	2076	CG	ARG	154	-41.228	-2.887	-24.838	67.15	C
ATOM	2077	HG2	ARG	154	-41.295	-1.868	-24.559	0.00	H
ATOM	2078	HG3	ARG	154	-40.301	-3.281	-24.512	0.00	H
ATOM	2079	CD	ARG	154	-41.300	-2.988	-26.350	68.70	C
ATOM	2080	HD2	ARG	154	-42.285	-2.768	-26.672	0.00	H
ATOM	2081	HD3	ARG	154	-40.625	-2.296	-26.783	0.00	H
ATOM	2082	NE	ARG	154	-40.952	-4.324	-26.826	69.84	N1+
ATOM	2083	HE	ARG	154	-40.703	-5.046	-26.166	0.00	H
ATOM	2084	CZ	ARG	154	-40.936	-4.678	-28.107	70.58	C
ATOM	2085	NH1	ARG	154	-41.252	-3.792	-29.045	70.99	N
ATOM	2086	HH11	ARG	154	-41.240	-4.061	-30.017	0.00	H
ATOM	2087	HH12	ARG	154	-41.504	-2.850	-28.785	0.00	H
ATOM	2088	NH2	ARG	154	-40.596	-5.916	-28.448	70.79	N
ATOM	2089	HH21	ARG	154	-40.583	-6.186	-29.420	0.00	H
ATOM	2090	HH22	ARG	154	-40.350	-6.586	-27.735	0.00	H
ATOM	2091	C	ARG	154	-42.087	-2.379	-22.063	64.16	C
ATOM	2092	O	ARG	154	-42.971	-1.532	-22.179	65.49	O
ATOM	2093	N	LYS	155	-40.943	-2.138	-21.429	61.43	N
ATOM	2094	HN	LYS	155	-40.231	-2.852	-21.407	0.00	H
ATOM	2095	CA	LYS	155	-40.712	-0.857	-20.769	58.86	C
ATOM	2096	HA	LYS	155	-41.611	-0.525	-20.317	0.00	H
ATOM	2097	CB	LYS	155	-39.634	-1.010	-19.693	59.42	C

ATOM	2098	HB2	LYS	155	-39.390	-0.057	-19.300	0.00	H
ATOM	2099	HB3	LYS	155	-39.997	-1.630	-18.915	0.00	H
ATOM	2100	CG	LYS	155	-38.326	-1.630	-20.162	58.85	C
ATOM	2101	HG2	LYS	155	-38.532	-2.486	-20.751	0.00	H
ATOM	2102	HG3	LYS	155	-37.788	-0.924	-20.740	0.00	H
ATOM	2103	CD	LYS	155	-37.476	-2.043	-18.955	58.25	C
ATOM	2104	HD2	LYS	155	-36.584	-2.504	-19.292	0.00	H
ATOM	2105	HD3	LYS	155	-37.235	-1.185	-18.383	0.00	H
ATOM	2106	CE	LYS	155	-38.224	-3.033	-18.055	56.89	C
ATOM	2107	HE2	LYS	155	-39.092	-2.569	-17.664	0.00	H
ATOM	2108	HE3	LYS	155	-38.503	-3.883	-18.621	0.00	H
ATOM	2109	NZ	LYS	155	-37.403	-3.498	-16.911	55.27	N1+
ATOM	2110	HZ1	LYS	155	-36.575	-3.959	-17.257	0.00	H
ATOM	2111	HZ2	LYS	155	-37.136	-2.707	-16.345	0.00	H
ATOM	2112	HZ3	LYS	155	-37.940	-4.145	-16.353	0.00	H
ATOM	2113	C	LYS	155	-40.391	0.344	-21.648	56.97	C
ATOM	2114	O	LYS	155	-39.587	0.256	-22.576	56.93	O
ATOM	2115	N	PRO	156	-41.036	1.490	-21.361	54.85	N
ATOM	2116	CD	PRO	156	-42.048	1.659	-20.299	54.22	C
ATOM	2117	HD2	PRO	156	-42.935	1.149	-20.572	0.00	H
ATOM	2118	HD3	PRO	156	-41.677	1.260	-19.391	0.00	H
ATOM	2119	CA	PRO	156	-40.849	2.742	-22.097	52.43	C
ATOM	2120	HA	PRO	156	-40.824	2.540	-23.136	0.00	H
ATOM	2121	CB	PRO	156	-42.060	3.569	-21.684	52.61	C
ATOM	2122	HB2	PRO	156	-41.843	4.598	-21.807	0.00	H
ATOM	2123	HB3	PRO	156	-42.889	3.308	-22.289	0.00	H
ATOM	2124	CG	PRO	156	-42.229	3.170	-20.249	53.43	C
ATOM	2125	HG2	PRO	156	-41.493	3.652	-19.660	0.00	H
ATOM	2126	HG3	PRO	156	-43.192	3.456	-19.914	0.00	H
ATOM	2127	C	PRO	156	-39.538	3.386	-21.672	50.44	C
ATOM	2128	O	PRO	156	-39.022	3.106	-20.589	49.49	O
ATOM	2129	N	ALA	157	-39.008	4.250	-22.527	48.15	N
ATOM	2130	HN	ALA	157	-39.497	4.439	-23.389	0.00	H
ATOM	2131	CA	ALA	157	-37.753	4.918	-22.245	45.54	C
ATOM	2132	HA	ALA	157	-37.001	4.195	-22.062	0.00	H
ATOM	2133	CB	ALA	157	-37.344	5.773	-23.426	44.84	C
ATOM	2134	HB1	ALA	157	-37.228	5.160	-24.282	0.00	H
ATOM	2135	HB2	ALA	157	-38.091	6.500	-23.611	0.00	H
ATOM	2136	HB3	ALA	157	-36.427	6.257	-23.211	0.00	H
ATOM	2137	C	ALA	157	-37.875	5.780	-21.014	43.96	C
ATOM	2138	O	ALA	157	-38.961	6.248	-20.681	44.16	O
ATOM	2139	N	ARG	158	-36.756	5.967	-20.327	42.63	N
ATOM	2140	HN	ARG	158	-35.915	5.498	-20.628	0.00	H
ATOM	2141	CA	ARG	158	-36.729	6.830	-19.159	40.97	C
ATOM	2142	HA	ARG	158	-37.645	6.743	-18.635	0.00	H
ATOM	2143	CB	ARG	158	-35.584	6.445	-18.213	41.89	C
ATOM	2144	HB2	ARG	158	-34.685	6.352	-18.766	0.00	H
ATOM	2145	HB3	ARG	158	-35.468	7.196	-17.475	0.00	H
ATOM	2146	CG	ARG	158	-35.806	5.120	-17.482	44.89	C
ATOM	2147	HG2	ARG	158	-36.844	4.958	-17.353	0.00	H
ATOM	2148	HG3	ARG	158	-35.394	4.329	-18.052	0.00	H
ATOM	2149	CD	ARG	158	-35.151	5.092	-16.099	48.00	C
ATOM	2150	HD2	ARG	158	-34.171	4.699	-16.180	0.00	H
ATOM	2151	HD3	ARG	158	-35.105	6.076	-15.710	0.00	H
ATOM	2152	NE	ARG	158	-35.908	4.257	-15.157	53.54	N1+
ATOM	2153	HE	ARG	158	-36.268	3.362	-15.453	0.00	H
ATOM	2154	CZ	ARG	158	-36.170	4.597	-13.891	56.32	C
ATOM	2155	NH1	ARG	158	-36.863	3.782	-13.100	55.72	N
ATOM	2156	HH11	ARG	158	-37.055	4.048	-12.146	0.00	H
ATOM	2157	HH12	ARG	158	-37.196	2.898	-13.454	0.00	H
ATOM	2158	NH2	ARG	158	-35.739	5.761	-13.414	58.30	N
ATOM	2159	HH21	ARG	158	-35.936	6.019	-12.459	0.00	H
ATOM	2160	HH22	ARG	158	-35.215	6.386	-14.007	0.00	H
ATOM	2161	C	ARG	158	-36.510	8.236	-19.717	39.30	C
ATOM	2162	O	ARG	158	-36.073	8.398	-20.857	40.08	O
ATOM	2163	N	LEU	159	-36.828	9.255	-18.934	36.65	N
ATOM	2164	HN	LEU	159	-37.196	9.085	-18.010	0.00	H
ATOM	2165	CA	LEU	159	-36.647	10.618	-19.404	34.09	C
ATOM	2166	HA	LEU	159	-36.543	10.617	-20.458	0.00	H
ATOM	2167	CB	LEU	159	-37.855	11.469	-19.020	34.00	C
ATOM	2168	HB2	LEU	159	-37.876	11.598	-17.969	0.00	H
ATOM	2169	HB3	LEU	159	-37.784	12.415	-19.491	0.00	H
ATOM	2170	CG	LEU	159	-39.206	10.865	-19.426	35.92	C
ATOM	2171	HG	LEU	159	-39.324	9.920	-18.962	0.00	H
ATOM	2172	CD1	LEU	159	-40.326	11.789	-18.985	35.85	C

ATOM	2173	HD11	LEU	159	-40.293	11.906	-17.933	0.00	H
ATOM	2174	HD12	LEU	159	-40.208	12.734	-19.449	0.00	H
ATOM	2175	HD13	LEU	159	-41.258	11.372	-19.265	0.00	H
ATOM	2176	CD2	LEU	159	-39.257	10.630	-20.935	33.47	C
ATOM	2177	HD21	LEU	159	-39.127	11.552	-21.440	0.00	H
ATOM	2178	HD22	LEU	159	-38.484	9.962	-21.215	0.00	H
ATOM	2179	HD23	LEU	159	-40.195	10.214	-21.196	0.00	H
ATOM	2180	C	LEU	159	-35.390	11.217	-18.803	32.39	C
ATOM	2181	O	LEU	159	-35.083	10.994	-17.637	33.19	O
ATOM	2182	N	ILE	160	-34.636	11.957	-19.600	30.75	N
ATOM	2183	HN	ILE	160	-34.887	12.084	-20.569	0.00	H
ATOM	2184	CA	ILE	160	-33.441	12.587	-19.072	29.74	C
ATOM	2185	HA	ILE	160	-33.357	12.373	-18.038	0.00	H
ATOM	2186	CB	ILE	160	-32.173	12.083	-19.772	30.65	C
ATOM	2187	HB	ILE	160	-31.334	12.617	-19.410	0.00	H
ATOM	2188	CG2	ILE	160	-31.989	10.599	-19.488	31.09	C
ATOM	2189	HG21	ILE	160	-31.898	10.448	-18.444	0.00	H
ATOM	2190	HG22	ILE	160	-32.828	10.064	-19.851	0.00	H
ATOM	2191	HG23	ILE	160	-31.113	10.253	-19.972	0.00	H
ATOM	2192	CG1	ILE	160	-32.275	12.324	-21.274	31.77	C
ATOM	2193	HG12	ILE	160	-33.108	11.797	-21.660	0.00	H
ATOM	2194	HG13	ILE	160	-32.397	13.360	-21.458	0.00	H
ATOM	2195	CD1	ILE	160	-31.056	11.868	-22.035	33.91	C
ATOM	2196	HD11	ILE	160	-30.205	12.392	-21.685	0.00	H
ATOM	2197	HD12	ILE	160	-30.916	10.829	-21.887	0.00	H
ATOM	2198	HD13	ILE	160	-31.191	12.063	-23.067	0.00	H
ATOM	2199	C	ILE	160	-33.576	14.089	-19.244	28.55	C
ATOM	2200	O	ILE	160	-33.916	14.575	-20.323	27.68	O
ATOM	2201	N	VAL	161	-33.341	14.814	-18.157	27.13	N
ATOM	2202	HN	VAL	161	-33.090	14.323	-17.312	0.00	H
ATOM	2203	CA	VAL	161	-33.435	16.267	-18.154	26.11	C
ATOM	2204	HA	VAL	161	-33.731	16.604	-19.114	0.00	H
ATOM	2205	CB	VAL	161	-34.478	16.727	-17.110	26.01	C
ATOM	2206	HB	VAL	161	-34.212	16.351	-16.156	0.00	H
ATOM	2207	CG1	VAL	161	-34.494	18.244	-16.999	24.02	C
ATOM	2208	HG11	VAL	161	-33.537	18.586	-16.701	0.00	H
ATOM	2209	HG12	VAL	161	-34.742	18.664	-17.939	0.00	H
ATOM	2210	HG13	VAL	161	-35.214	18.538	-16.280	0.00	H
ATOM	2211	CG2	VAL	161	-35.853	16.197	-17.502	22.84	C
ATOM	2212	HG21	VAL	161	-36.117	16.573	-18.456	0.00	H
ATOM	2213	HG22	VAL	161	-35.827	15.139	-17.534	0.00	H
ATOM	2214	HG23	VAL	161	-36.569	16.511	-16.788	0.00	H
ATOM	2215	C	VAL	161	-32.059	16.816	-17.803	25.53	C
ATOM	2216	O	VAL	161	-31.492	16.470	-16.766	26.31	O
ATOM	2217	N	PHE	162	-31.508	17.657	-18.665	24.12	N
ATOM	2218	HN	PHE	162	-31.997	17.928	-19.505	0.00	H
ATOM	2219	CA	PHE	162	-30.183	18.191	-18.391	24.80	C
ATOM	2220	HA	PHE	162	-30.037	18.252	-17.344	0.00	H
ATOM	2221	CB	PHE	162	-29.126	17.263	-19.005	25.35	C
ATOM	2222	HB2	PHE	162	-28.161	17.581	-18.706	0.00	H
ATOM	2223	HB3	PHE	162	-29.290	16.271	-18.672	0.00	H
ATOM	2224	CG	PHE	162	-29.145	17.240	-20.504	25.50	C
ATOM	2225	CD1	PHE	162	-30.098	16.492	-21.193	28.29	C
ATOM	2226	HD1	PHE	162	-30.800	15.882	-20.649	0.00	H
ATOM	2227	CD2	PHE	162	-28.247	18.013	-21.233	23.95	C
ATOM	2228	HD2	PHE	162	-27.498	18.594	-20.722	0.00	H
ATOM	2229	CE1	PHE	162	-30.159	16.520	-22.593	26.60	C
ATOM	2230	HE1	PHE	162	-30.902	15.938	-23.111	0.00	H
ATOM	2231	CE2	PHE	162	-28.299	18.049	-22.621	24.80	C
ATOM	2232	HE2	PHE	162	-27.598	18.655	-23.171	0.00	H
ATOM	2233	CZ	PHE	162	-29.257	17.302	-23.302	25.92	C
ATOM	2234	HZ	PHE	162	-29.299	17.331	-24.378	0.00	H
ATOM	2235	C	PHE	162	-29.971	19.631	-18.892	23.35	C
ATOM	2236	O	PHE	162	-30.546	20.039	-19.906	24.26	O
ATOM	2237	N	PRO	163	-29.142	20.418	-18.176	20.01	N
ATOM	2238	CD	PRO	163	-28.505	20.110	-16.883	19.21	C
ATOM	2239	HD2	PRO	163	-29.252	19.910	-16.160	0.00	H
ATOM	2240	HD3	PRO	163	-27.881	19.261	-16.990	0.00	H
ATOM	2241	CA	PRO	163	-28.866	21.797	-18.559	17.37	C
ATOM	2242	HA	PRO	163	-29.726	22.216	-19.012	0.00	H
ATOM	2243	CB	PRO	163	-28.530	22.441	-17.233	16.01	C
ATOM	2244	HB2	PRO	163	-27.985	23.333	-17.402	0.00	H
ATOM	2245	HB3	PRO	163	-29.425	22.667	-16.714	0.00	H
ATOM	2246	CG	PRO	163	-27.727	21.374	-16.585	16.57	C
ATOM	2247	HG2	PRO	163	-26.756	21.357	-17.007	0.00	H

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ATOM   2248  HG3 PRO   163     -27.657  21.567 -15.546        0.00           H
ATOM   2249  C   PRO   163     -27.707  21.849 -19.548       17.34           C
ATOM   2250  O   PRO   163     -27.001  20.851 -19.748       16.05           O
ATOM   2251  N   ASP   164     -27.523  23.017 -20.157       17.74           N
ATOM   2252  HN  ASP   164     -28.155  23.766 -19.915        0.00           H
ATOM   2253  CA  ASP   164     -26.469  23.242 -21.134       16.04           C
ATOM   2254  HA  ASP   164     -26.597  22.579 -21.950        0.00           H
ATOM   2255  CB  ASP   164     -26.534  24.681 -21.635       14.81           C
ATOM   2256  HB2 ASP   164     -27.535  24.924 -21.882        0.00           H
ATOM   2257  HB3 ASP   164     -26.189  25.335 -20.877        0.00           H
ATOM   2258  CG  ASP   164     -25.684  24.910 -22.866       18.32           C
ATOM   2259  OD1 ASP   164     -26.120  24.559 -23.986       19.54           O
ATOM   2260  OD2 ASP   164     -24.565  25.440 -22.719       21.33           O1-
ATOM   2261  C   ASP   164     -25.076  22.965 -20.552       17.90           C
ATOM   2262  O   ASP   164     -24.858  23.041 -19.333       14.62           O
ATOM   2263  N   LEU   165     -24.150  22.639 -21.452       19.75           N
ATOM   2264  HN  LEU   165     -24.458  22.607 -22.412        0.00           H
ATOM   2265  CA  LEU   165     -22.768  22.339 -21.122       19.73           C
ATOM   2266  HA  LEU   165     -22.719  21.408 -20.620        0.00           H
ATOM   2267  CB  LEU   165     -21.963  22.276 -22.419       20.30           C
ATOM   2268  HB2 LEU   165     -22.369  21.529 -23.050        0.00           H
ATOM   2269  HB3 LEU   165     -22.008  23.214 -22.908        0.00           H
ATOM   2270  CG  LEU   165     -20.476  21.949 -22.321       21.32           C
ATOM   2271  HG  LEU   165     -19.971  22.744 -21.837        0.00           H
ATOM   2272  CD1 LEU   165     -20.268  20.677 -21.528       20.22           C
ATOM   2273 HD11 LEU   165     -20.659  20.802 -20.552        0.00           H
ATOM   2274 HD12 LEU   165     -20.767  19.876 -22.009        0.00           H
ATOM   2275 HD13 LEU   165     -19.232  20.463 -21.469        0.00           H
ATOM   2276  CD2 LEU   165     -19.915  21.799 -23.712       22.12           C
ATOM   2277 HD21 LEU   165     -20.421  21.016 -24.214        0.00           H
ATOM   2278 HD22 LEU   165     -20.048  22.704 -24.246        0.00           H
ATOM   2279 HD23 LEU   165     -18.882  21.572 -23.654        0.00           H
ATOM   2280  C   LEU   165     -22.176  23.387 -20.176       20.10           C
ATOM   2281  O   LEU   165     -21.595  23.051 -19.136       18.78           O
ATOM   2282  N   GLY   166     -22.323  24.655 -20.543       19.63           N
ATOM   2283  HN  GLY   166     -22.804  24.874 -21.403        0.00           H
ATOM   2284  CA  GLY   166     -21.796  25.723 -19.714       21.44           C
ATOM   2285  HA2 GLY   166     -20.738  25.723 -19.769        0.00           H
ATOM   2286  HA3 GLY   166     -22.168  26.653 -20.058        0.00           H
ATOM   2287  C   GLY   166     -22.185  25.579 -18.254       21.12           C
ATOM   2288  O   GLY   166     -21.338  25.642 -17.369       22.71           O
ATOM   2289  N   VAL   167     -23.473  25.398 -17.999       21.67           N
ATOM   2290  HN  VAL   167     -24.116  25.372 -18.776        0.00           H
ATOM   2291  CA  VAL   167     -23.968  25.238 -16.638       21.73           C
ATOM   2292  HA  VAL   167     -23.686  26.079 -16.059        0.00           H
ATOM   2293  CB  VAL   167     -25.517  25.117 -16.625       22.62           C
ATOM   2294  HB  VAL   167     -25.816  24.347 -17.287        0.00           H
ATOM   2295  CG1 VAL   167     -26.011  24.732 -15.227       21.35           C
ATOM   2296 HG11 VAL   167     -25.590  23.801 -14.948        0.00           H
ATOM   2297 HG12 VAL   167     -25.717  25.475 -14.532        0.00           H
ATOM   2298 HG13 VAL   167     -27.067  24.654 -15.235        0.00           H
ATOM   2299  CG2 VAL   167     -26.145  26.432 -17.068       21.41           C
ATOM   2300 HG21 VAL   167     -25.850  27.205 -16.407        0.00           H
ATOM   2301 HG22 VAL   167     -25.822  26.665 -18.049        0.00           H
ATOM   2302 HG23 VAL   167     -27.200  26.341 -17.056        0.00           H
ATOM   2303  C   VAL   167     -23.378  23.982 -16.000       22.00           C
ATOM   2304  O   VAL   167     -22.981  23.993 -14.831       22.57           O
ATOM   2305  N   ARG   168     -23.333  22.899 -16.774       21.24           N
ATOM   2306  HN  ARG   168     -23.673  22.973 -17.721        0.00           H
ATOM   2307  CA  ARG   168     -22.813  21.637 -16.287       20.12           C
ATOM   2308  HA  ARG   168     -23.405  21.301 -15.476        0.00           H
ATOM   2309  CB  ARG   168     -22.839  20.573 -17.393       20.89           C
ATOM   2310  HB2 ARG   168     -22.341  20.943 -18.251        0.00           H
ATOM   2311  HB3 ARG   168     -22.351  19.697 -17.052        0.00           H
ATOM   2312  CG  ARG   168     -24.238  20.140 -17.855       20.25           C
ATOM   2313  HG2 ARG   168     -24.887  20.092 -17.019        0.00           H
ATOM   2314  HG3 ARG   168     -24.613  20.843 -18.553        0.00           H
ATOM   2315  CD  ARG   168     -24.227  18.759 -18.529       16.92           C
ATOM   2316  HD2 ARG   168     -23.829  18.042 -17.859        0.00           H
ATOM   2317  HD3 ARG   168     -25.216  18.486 -18.791        0.00           H
ATOM   2318  NE  ARG   168     -23.427  18.693 -19.751       20.69           N1+
ATOM   2319  HE  ARG   168     -22.500  18.295 -19.726        0.00           H
ATOM   2320  CZ  ARG   168     -23.819  19.127 -20.953       23.69           C
ATOM   2321  NH1 ARG   168     -25.019  19.673 -21.132       22.83           N
ATOM   2322 HH11 ARG   168     -25.296  19.994 -22.048        0.00           H
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ATOM	2323	HH12	ARG	168	-25.652	19.766	-20.352	0.00	H
ATOM	2324	NH2	ARG	168	-23.009	19.005	-21.994	21.32	N
ATOM	2325	HH21	ARG	168	-23.302	19.332	-22.902	0.00	H
ATOM	2326	HH22	ARG	168	-22.099	18.585	-21.878	0.00	H
ATOM	2327	C	ARG	168	-21.402	21.795	-15.753	21.57	C
ATOM	2328	O	ARG	168	-21.040	21.175	-14.750	21.28	O
ATOM	2329	N	VAL	169	-20.595	22.621	-16.409	21.71	N
ATOM	2330	HN	VAL	169	-20.920	23.112	-17.229	0.00	H
ATOM	2331	CA	VAL	169	-19.230	22.816	-15.936	22.68	C
ATOM	2332	HA	VAL	169	-18.791	21.875	-15.727	0.00	H
ATOM	2333	CB	VAL	169	-18.350	23.541	-16.994	22.41	C
ATOM	2334	HB	VAL	169	-18.762	24.494	-17.202	0.00	H
ATOM	2335	CG1	VAL	169	-16.939	23.732	-16.460	20.87	C
ATOM	2336	HG11	VAL	169	-16.972	24.316	-15.577	0.00	H
ATOM	2337	HG12	VAL	169	-16.513	22.787	-16.243	0.00	H
ATOM	2338	HG13	VAL	169	-16.350	24.226	-17.188	0.00	H
ATOM	2339	CG2	VAL	169	-18.298	22.725	-18.285	20.68	C
ATOM	2340	HG21	VAL	169	-17.883	21.772	-18.084	0.00	H
ATOM	2341	HG22	VAL	169	-19.278	22.610	-18.669	0.00	H
ATOM	2342	HG23	VAL	169	-17.697	23.228	-18.997	0.00	H
ATOM	2343	C	VAL	169	-19.246	23.630	-14.641	24.45	C
ATOM	2344	O	VAL	169	-18.508	23.331	-13.698	25.41	O
ATOM	2345	N	CYS	170	-20.093	24.653	-14.576	24.64	N
ATOM	2346	HN	CYS	170	-20.695	24.867	-15.357	0.00	H
ATOM	2347	CA	CYS	170	-20.149	25.467	-13.368	24.28	C
ATOM	2348	HA	CYS	170	-19.189	25.865	-13.165	0.00	H
ATOM	2349	CB	CYS	170	-21.062	26.666	-13.580	23.67	C
ATOM	2350	HB2	CYS	170	-22.002	26.335	-13.939	0.00	H
ATOM	2351	HB3	CYS	170	-21.195	27.175	-12.661	0.00	H
ATOM	2352	SG	CYS	170	-20.388	27.839	-14.776	25.50	S
ATOM	2353	HG	CYS	170	-21.178	28.799	-14.909	0.00	H
ATOM	2354	C	CYS	170	-20.592	24.669	-12.158	24.37	C
ATOM	2355	O	CYS	170	-20.152	24.931	-11.045	25.21	O
ATOM	2356	N	GLU	171	-21.458	23.687	-12.370	24.94	N
ATOM	2357	HN	GLU	171	-21.799	23.519	-13.305	0.00	H
ATOM	2358	CA	GLU	171	-21.917	22.853	-11.266	25.39	C
ATOM	2359	HA	GLU	171	-22.401	23.458	-10.544	0.00	H
ATOM	2360	CB	GLU	171	-22.896	21.794	-11.745	27.25	C
ATOM	2361	HB2	GLU	171	-22.419	21.166	-12.452	0.00	H
ATOM	2362	HB3	GLU	171	-23.220	21.214	-10.920	0.00	H
ATOM	2363	CG	GLU	171	-24.155	22.267	-12.418	28.03	C
ATOM	2364	HG2	GLU	171	-24.659	22.949	-11.784	0.00	H
ATOM	2365	HG3	GLU	171	-23.909	22.747	-13.329	0.00	H
ATOM	2366	CD	GLU	171	-25.066	21.088	-12.706	29.13	C
ATOM	2367	OE1	GLU	171	-25.700	20.584	-11.755	29.71	O1-
ATOM	2368	OE2	GLU	171	-25.129	20.643	-13.873	28.59	O
ATOM	2369	C	GLU	171	-20.722	22.122	-10.673	25.78	C
ATOM	2370	O	GLU	171	-20.658	21.882	-9.468	25.23	O
ATOM	2371	N	LYS	172	-19.784	21.746	-11.539	26.83	N
ATOM	2372	HN	LYS	172	-19.916	21.966	-12.515	0.00	H
ATOM	2373	CA	LYS	172	-18.587	21.032	-11.107	27.54	C
ATOM	2374	HA	LYS	172	-18.867	20.197	-10.519	0.00	H
ATOM	2375	CB	LYS	172	-17.773	20.534	-12.308	28.00	C
ATOM	2376	HB2	LYS	172	-17.613	21.335	-12.982	0.00	H
ATOM	2377	HB3	LYS	172	-16.840	20.163	-11.972	0.00	H
ATOM	2378	CG	LYS	172	-18.416	19.414	-13.115	30.51	C
ATOM	2379	HG2	LYS	172	-18.583	18.578	-12.487	0.00	H
ATOM	2380	HG3	LYS	172	-19.340	19.749	-13.510	0.00	H
ATOM	2381	CD	LYS	172	-17.511	18.988	-14.273	32.25	C
ATOM	2382	HD2	LYS	172	-17.334	19.818	-14.906	0.00	H
ATOM	2383	HD3	LYS	172	-16.590	18.634	-13.889	0.00	H
ATOM	2384	CE	LYS	172	-18.124	17.873	-15.122	32.06	C
ATOM	2385	HE2	LYS	172	-17.376	17.446	-15.738	0.00	H
ATOM	2386	HE3	LYS	172	-18.527	17.127	-14.487	0.00	H
ATOM	2387	NZ	LYS	172	-19.217	18.373	-16.001	35.83	N1+
ATOM	2388	HZ1	LYS	172	-19.949	18.773	-15.433	0.00	H
ATOM	2389	HZ2	LYS	172	-18.852	19.077	-16.624	0.00	H
ATOM	2390	HZ3	LYS	172	-19.591	17.607	-16.541	0.00	H
ATOM	2391	C	LYS	172	-17.713	21.931	-10.247	27.87	C
ATOM	2392	O	LYS	172	-17.202	21.503	-9.209	29.34	O
ATOM	2393	N	MET	173	-17.544	23.179	-10.672	26.93	N
ATOM	2394	HN	MET	173	-17.995	23.481	-11.523	0.00	H
ATOM	2395	CA	MET	173	-16.715	24.108	-9.919	26.03	C
ATOM	2396	HA	MET	173	-15.742	23.704	-9.809	0.00	H
ATOM	2397	CB	MET	173	-16.610	25.453	-10.639	25.64	C

ATOM	2398	HB2	MET	173	-17.582	25.832	-10.823	0.00	H
ATOM	2399	HB3	MET	173	-16.073	26.136	-10.034	0.00	H
ATOM	2400	CG	MET	173	-15.895	25.372	-11.975	26.83	C
ATOM	2401	HG2	MET	173	-14.940	24.936	-11.838	0.00	H
ATOM	2402	HG3	MET	173	-16.462	24.777	-12.643	0.00	H
ATOM	2403	SD	MET	173	-15.637	26.965	-12.777	31.13	S
ATOM	2404	CE	MET	173	-17.207	27.219	-13.558	28.21	C
ATOM	2405	HE1	MET	173	-17.394	26.430	-14.240	0.00	H
ATOM	2406	HE2	MET	173	-17.968	27.237	-12.822	0.00	H
ATOM	2407	HE3	MET	173	-17.197	28.141	-14.079	0.00	H
ATOM	2408	C	MET	173	-17.261	24.326	-8.528	25.37	C
ATOM	2409	O	MET	173	-16.509	24.347	-7.549	25.31	O
ATOM	2410	N	ALA	174	-18.576	24.459	-8.433	24.41	N
ATOM	2411	HN	ALA	174	-19.144	24.379	-9.263	0.00	H
ATOM	2412	CA	ALA	174	-19.201	24.718	-7.146	23.26	C
ATOM	2413	HA	ALA	174	-18.499	25.175	-6.498	0.00	H
ATOM	2414	CB	ALA	174	-20.387	25.643	-7.348	21.85	C
ATOM	2415	HB1	ALA	174	-20.055	26.554	-7.773	0.00	H
ATOM	2416	HB2	ALA	174	-21.086	25.184	-7.998	0.00	H
ATOM	2417	HB3	ALA	174	-20.847	25.836	-6.414	0.00	H
ATOM	2418	C	ALA	174	-19.625	23.509	-6.308	23.27	C
ATOM	2419	O	ALA	174	-19.708	23.618	-5.087	23.92	O
ATOM	2420	N	LEU	175	-19.883	22.359	-6.926	21.07	N
ATOM	2421	HN	LEU	175	-19.770	22.262	-7.924	0.00	H
ATOM	2422	CA	LEU	175	-20.339	21.224	-6.129	21.17	C
ATOM	2423	HA	LEU	175	-20.137	21.407	-5.106	0.00	H
ATOM	2424	CB	LEU	175	-21.846	21.039	-6.329	16.83	C
ATOM	2425	HB2	LEU	175	-22.070	21.060	-7.364	0.00	H
ATOM	2426	HB3	LEU	175	-22.144	20.108	-5.922	0.00	H
ATOM	2427	CG	LEU	175	-22.786	22.064	-5.701	16.50	C
ATOM	2428	HG	LEU	175	-22.315	23.012	-5.687	0.00	H
ATOM	2429	CD1	LEU	175	-24.069	22.153	-6.511	14.62	C
ATOM	2430	HD11	LEU	175	-23.841	22.449	-7.502	0.00	H
ATOM	2431	HD12	LEU	175	-24.544	21.206	-6.526	0.00	H
ATOM	2432	HD13	LEU	175	-24.716	22.866	-6.070	0.00	H
ATOM	2433	CD2	LEU	175	-23.064	21.674	-4.256	15.23	C
ATOM	2434	HD21	LEU	175	-23.515	20.716	-4.229	0.00	H
ATOM	2435	HD22	LEU	175	-22.154	21.650	-3.715	0.00	H
ATOM	2436	HD23	LEU	175	-23.716	22.384	-3.818	0.00	H
ATOM	2437	C	LEU	175	-19.645	19.873	-6.316	22.65	C
ATOM	2438	O	LEU	175	-20.034	18.896	-5.666	20.12	O
ATOM	2439	N	TYR	176	-18.636	19.805	-7.185	22.92	N
ATOM	2440	HN	TYR	176	-18.351	20.629	-7.692	0.00	H
ATOM	2441	CA	TYR	176	-17.947	18.544	-7.402	23.87	C
ATOM	2442	HA	TYR	176	-18.640	17.815	-7.733	0.00	H
ATOM	2443	CB	TYR	176	-16.848	18.672	-8.453	24.76	C
ATOM	2444	HB2	TYR	176	-17.273	18.984	-9.372	0.00	H
ATOM	2445	HB3	TYR	176	-16.135	19.387	-8.133	0.00	H
ATOM	2446	CG	TYR	176	-16.137	17.354	-8.677	27.26	C
ATOM	2447	CD1	TYR	176	-16.807	16.260	-9.239	27.46	C
ATOM	2448	HD1	TYR	176	-17.819	16.371	-9.590	0.00	H
ATOM	2449	CE1	TYR	176	-16.189	15.017	-9.356	27.58	C
ATOM	2450	HE1	TYR	176	-16.723	14.189	-9.790	0.00	H
ATOM	2451	CD2	TYR	176	-14.828	17.168	-8.247	26.97	C
ATOM	2452	HD2	TYR	176	-14.280	17.990	-7.818	0.00	H
ATOM	2453	CE2	TYR	176	-14.206	15.929	-8.361	27.41	C
ATOM	2454	HE2	TYR	176	-13.192	15.802	-8.021	0.00	H
ATOM	2455	CZ	TYR	176	-14.889	14.863	-8.910	27.80	C
ATOM	2456	OH	TYR	176	-14.271	13.640	-8.985	30.75	O
ATOM	2457	HH	TYR	176	-14.879	12.995	-9.372	0.00	H
ATOM	2458	C	TYR	176	-17.327	18.028	-6.116	24.46	C
ATOM	2459	O	TYR	176	-17.532	16.875	-5.735	24.67	O
ATOM	2460	N	ASP	177	-16.565	18.875	-5.449	25.12	N
ATOM	2461	HN	ASP	177	-16.406	19.804	-5.813	0.00	H
ATOM	2462	CA	ASP	177	-15.926	18.473	-4.202	25.18	C
ATOM	2463	HA	ASP	177	-15.257	17.673	-4.386	0.00	H
ATOM	2464	CB	ASP	177	-15.153	19.639	-3.601	27.06	C
ATOM	2465	HB2	ASP	177	-14.667	20.176	-4.374	0.00	H
ATOM	2466	HB3	ASP	177	-15.823	20.282	-3.091	0.00	H
ATOM	2467	CG	ASP	177	-14.101	19.190	-2.616	28.94	C
ATOM	2468	OD1	ASP	177	-14.025	17.971	-2.353	30.00	O
ATOM	2469	OD2	ASP	177	-13.346	20.055	-2.108	30.18	O1-
ATOM	2470	C	ASP	177	-17.025	18.031	-3.247	23.50	C
ATOM	2471	O	ASP	177	-16.955	16.962	-2.657	23.15	O
ATOM	2472	N	VAL	178	-18.059	18.848	-3.120	24.26	N

ATOM	2473	HN	VAL	178	-18.080	19.706	-3.650	0.00	H
ATOM	2474	CA	VAL	178	-19.157	18.518	-2.227	25.20	C
ATOM	2475	HA	VAL	178	-18.808	18.506	-1.227	0.00	H
ATOM	2476	CB	VAL	178	-20.301	19.541	-2.326	24.09	C
ATOM	2477	HB	VAL	178	-20.786	19.438	-3.262	0.00	H
ATOM	2478	CG1	VAL	178	-21.314	19.268	-1.236	22.00	C
ATOM	2479	HG11	VAL	178	-21.703	18.290	-1.352	0.00	H
ATOM	2480	HG12	VAL	178	-20.846	19.351	-0.290	0.00	H
ATOM	2481	HG13	VAL	178	-22.103	19.972	-1.303	0.00	H
ATOM	2482	CG2	VAL	178	-19.757	20.958	-2.202	24.11	C
ATOM	2483	HG21	VAL	178	-19.274	21.070	-1.266	0.00	H
ATOM	2484	HG22	VAL	178	-19.063	21.139	-2.981	0.00	H
ATOM	2485	HG23	VAL	178	-20.556	21.650	-2.272	0.00	H
ATOM	2486	C	VAL	178	-19.738	17.130	-2.484	27.82	C
ATOM	2487	O	VAL	178	-19.755	16.296	-1.571	29.73	O
ATOM	2488	N	VAL	179	-20.213	16.872	-3.708	27.78	N
ATOM	2489	HN	VAL	179	-20.157	17.590	-4.414	0.00	H
ATOM	2490	CA	VAL	179	-20.808	15.571	-4.031	26.64	C
ATOM	2491	HA	VAL	179	-21.551	15.335	-3.315	0.00	H
ATOM	2492	CB	VAL	179	-21.462	15.574	-5.425	26.91	C
ATOM	2493	HB	VAL	179	-22.010	14.678	-5.560	0.00	H
ATOM	2494	CG1	VAL	179	-22.464	16.705	-5.520	25.38	C
ATOM	2495	HG11	VAL	179	-23.213	16.576	-4.783	0.00	H
ATOM	2496	HG12	VAL	179	-21.970	17.628	-5.363	0.00	H
ATOM	2497	HG13	VAL	179	-22.910	16.702	-6.480	0.00	H
ATOM	2498	CG2	VAL	179	-20.394	15.674	-6.517	26.75	C
ATOM	2499	HG21	VAL	179	-19.845	16.571	-6.392	0.00	H
ATOM	2500	HG22	VAL	179	-19.738	14.846	-6.446	0.00	H
ATOM	2501	HG23	VAL	179	-20.860	15.675	-7.468	0.00	H
ATOM	2502	C	VAL	179	-19.852	14.376	-3.956	27.49	C
ATOM	2503	O	VAL	179	-20.290	13.226	-3.982	29.57	O
ATOM	2504	N	SER	180	-18.556	14.642	-3.850	26.99	N
ATOM	2505	HN	SER	180	-18.263	15.607	-3.827	0.00	H
ATOM	2506	CA	SER	180	-17.565	13.578	-3.767	27.55	C
ATOM	2507	HA	SER	180	-17.967	12.689	-4.178	0.00	H
ATOM	2508	CB	SER	180	-16.303	13.954	-4.541	25.84	C
ATOM	2509	HB2	SER	180	-15.908	14.858	-4.155	0.00	H
ATOM	2510	HB3	SER	180	-15.584	13.183	-4.440	0.00	H
ATOM	2511	OG	SER	180	-16.582	14.133	-5.911	25.76	O
ATOM	2512	HG	SER	180	-15.769	14.370	-6.377	0.00	H
ATOM	2513	C	SER	180	-17.162	13.303	-2.335	29.14	C
ATOM	2514	O	SER	180	-16.592	12.250	-2.037	31.93	O
ATOM	2515	N	THR	181	-17.460	14.241	-1.443	29.19	N
ATOM	2516	HN	THR	181	-17.967	15.061	-1.742	0.00	H
ATOM	2517	CA	THR	181	-17.064	14.097	-0.046	28.69	C
ATOM	2518	HA	THR	181	-16.544	13.183	0.081	0.00	H
ATOM	2519	CB	THR	181	-16.144	15.267	0.366	29.09	C
ATOM	2520	HB	THR	181	-16.657	16.184	0.231	0.00	H
ATOM	2521	OG1	THR	181	-14.963	15.251	-0.439	28.37	O
ATOM	2522	HG1	THR	181	-14.387	15.984	-0.181	0.00	H
ATOM	2523	CG2	THR	181	-15.738	15.144	1.820	31.71	C
ATOM	2524	HG21	THR	181	-16.603	15.158	2.430	0.00	H
ATOM	2525	HG22	THR	181	-15.218	14.233	1.965	0.00	H
ATOM	2526	HG23	THR	181	-15.109	15.955	2.081	0.00	H
ATOM	2527	C	THR	181	-18.174	14.006	0.996	27.95	C
ATOM	2528	O	THR	181	-18.118	13.183	1.898	29.76	O
ATOM	2529	N	LEU	182	-19.173	14.865	0.880	26.54	N
ATOM	2530	HN	LEU	182	-19.175	15.501	0.097	0.00	H
ATOM	2531	CA	LEU	182	-20.251	14.905	1.849	23.31	C
ATOM	2532	HA	LEU	182	-19.852	15.077	2.815	0.00	H
ATOM	2533	CB	LEU	182	-21.202	16.041	1.465	18.68	C
ATOM	2534	HB2	LEU	182	-20.648	16.932	1.323	0.00	H
ATOM	2535	HB3	LEU	182	-21.706	15.792	0.567	0.00	H
ATOM	2536	CG	LEU	182	-22.297	16.406	2.447	15.69	C
ATOM	2537	HG	LEU	182	-21.968	16.205	3.433	0.00	H
ATOM	2538	CD1	LEU	182	-22.627	17.855	2.325	19.26	C
ATOM	2539	HD11	LEU	182	-21.764	18.432	2.534	0.00	H
ATOM	2540	HD12	LEU	182	-22.959	18.060	1.340	0.00	H
ATOM	2541	HD13	LEU	182	-23.392	18.102	3.014	0.00	H
ATOM	2542	CD2	LEU	182	-23.510	15.570	2.169	16.91	C
ATOM	2543	HD21	LEU	182	-23.845	15.751	1.181	0.00	H
ATOM	2544	HD22	LEU	182	-23.265	14.545	2.276	0.00	H
ATOM	2545	HD23	LEU	182	-24.277	15.823	2.854	0.00	H
ATOM	2546	C	LEU	182	-21.003	13.583	2.081	24.44	C
ATOM	2547	O	LEU	182	-21.200	13.178	3.230	24.14	O

ATOM	2548	N	PRO	183	-21.421	12.885	1.007	25.29	N
ATOM	2549	CD	PRO	183	-21.158	13.173	-0.415	25.94	C
ATOM	2550	HD2	PRO	183	-21.364	14.193	-0.612	0.00	H
ATOM	2551	HD3	PRO	183	-20.142	12.969	-0.635	0.00	H
ATOM	2552	CA	PRO	183	-22.150	11.612	1.160	26.00	C
ATOM	2553	HA	PRO	183	-23.140	11.808	1.482	0.00	H
ATOM	2554	CB	PRO	183	-22.118	11.019	-0.247	25.49	C
ATOM	2555	HB2	PRO	183	-21.243	10.433	-0.363	0.00	H
ATOM	2556	HB3	PRO	183	-22.972	10.410	-0.393	0.00	H
ATOM	2557	CG	PRO	183	-22.119	12.227	-1.123	27.26	C
ATOM	2558	HG2	PRO	183	-21.785	11.961	-2.092	0.00	H
ATOM	2559	HG3	PRO	183	-23.101	12.618	-1.184	0.00	H
ATOM	2560	C	PRO	183	-21.513	10.665	2.183	27.13	C
ATOM	2561	O	PRO	183	-22.178	10.160	3.087	26.75	O
ATOM	2562	N	GLN	184	-20.217	10.425	2.021	27.65	N
ATOM	2563	HN	GLN	184	-19.753	10.873	1.245	0.00	H
ATOM	2564	CA	GLN	184	-19.469	9.555	2.911	27.70	C
ATOM	2565	HA	GLN	184	-19.902	8.589	2.907	0.00	H
ATOM	2566	CB	GLN	184	-18.031	9.474	2.429	30.94	C
ATOM	2567	HB2	GLN	184	-18.000	8.978	1.494	0.00	H
ATOM	2568	HB3	GLN	184	-17.638	10.452	2.324	0.00	H
ATOM	2569	CG	GLN	184	-17.102	8.723	3.358	36.84	C
ATOM	2570	HG2	GLN	184	-16.157	9.201	3.374	0.00	H
ATOM	2571	HG3	GLN	184	-17.510	8.715	4.335	0.00	H
ATOM	2572	CD	GLN	184	-16.890	7.282	2.929	40.18	C
ATOM	2573	OE1	GLN	184	-16.645	7.002	1.745	42.24	O
ATOM	2574	NE2	GLN	184	-16.966	6.357	3.891	40.50	N
ATOM	2575	HE21	GLN	184	-17.168	6.632	4.841	0.00	H
ATOM	2576	HE22	GLN	184	-16.821	5.384	3.668	0.00	H
ATOM	2577	C	GLN	184	-19.490	10.101	4.330	26.82	C
ATOM	2578	O	GLN	184	-19.778	9.384	5.293	25.95	O
ATOM	2579	N	ALA	185	-19.173	11.383	4.439	25.08	N
ATOM	2580	HN	ALA	185	-18.958	11.877	3.586	0.00	H
ATOM	2581	CA	ALA	185	-19.126	12.081	5.716	25.79	C
ATOM	2582	HA	ALA	185	-18.415	11.615	6.347	0.00	H
ATOM	2583	CB	ALA	185	-18.725	13.536	5.478	25.38	C
ATOM	2584	HB1	ALA	185	-17.771	13.569	5.019	0.00	H
ATOM	2585	HB2	ALA	185	-19.437	13.999	4.845	0.00	H
ATOM	2586	HB3	ALA	185	-18.689	14.048	6.404	0.00	H
ATOM	2587	C	ALA	185	-20.429	12.028	6.521	25.71	C
ATOM	2588	O	ALA	185	-20.407	11.973	7.752	25.06	O
ATOM	2589	N	VAL	186	-21.558	12.041	5.822	25.70	N
ATOM	2590	HN	VAL	186	-21.499	12.057	4.815	0.00	H
ATOM	2591	CA	VAL	186	-22.859	12.033	6.474	25.81	C
ATOM	2592	HA	VAL	186	-22.780	12.491	7.426	0.00	H
ATOM	2593	CB	VAL	186	-23.902	12.813	5.626	24.38	C
ATOM	2594	HB	VAL	186	-24.013	12.344	4.683	0.00	H
ATOM	2595	CG1	VAL	186	-25.257	12.802	6.300	19.98	C
ATOM	2596	HG11	VAL	186	-25.587	11.802	6.413	0.00	H
ATOM	2597	HG12	VAL	186	-25.181	13.258	7.253	0.00	H
ATOM	2598	HG13	VAL	186	-25.951	13.338	5.706	0.00	H
ATOM	2599	CG2	VAL	186	-23.432	14.246	5.423	23.87	C
ATOM	2600	HG21	VAL	186	-23.322	14.718	6.365	0.00	H
ATOM	2601	HG22	VAL	186	-22.501	14.244	4.918	0.00	H
ATOM	2602	HG23	VAL	186	-24.146	14.773	4.845	0.00	H
ATOM	2603	C	VAL	186	-23.407	10.643	6.757	27.72	C
ATOM	2604	O	VAL	186	-23.919	10.387	7.852	28.26	O
ATOM	2605	N	MET	187	-23.282	9.743	5.788	28.82	N
ATOM	2606	HN	MET	187	-22.808	10.007	4.937	0.00	H
ATOM	2607	CA	MET	187	-23.816	8.391	5.938	30.88	C
ATOM	2608	HA	MET	187	-24.447	8.353	6.788	0.00	H
ATOM	2609	CB	MET	187	-24.613	8.043	4.680	31.56	C
ATOM	2610	HB2	MET	187	-23.967	8.045	3.841	0.00	H
ATOM	2611	HB3	MET	187	-25.045	7.083	4.790	0.00	H
ATOM	2612	CG	MET	187	-25.747	9.028	4.390	32.91	C
ATOM	2613	HG2	MET	187	-26.612	8.740	4.929	0.00	H
ATOM	2614	HG3	MET	187	-25.454	10.001	4.687	0.00	H
ATOM	2615	SD	MET	187	-26.194	9.102	2.640	34.63	S
ATOM	2616	CE	MET	187	-26.578	7.404	2.322	36.55	C
ATOM	2617	HE1	MET	187	-25.725	6.807	2.517	0.00	H
ATOM	2618	HE2	MET	187	-27.374	7.098	2.950	0.00	H
ATOM	2619	HE3	MET	187	-26.864	7.291	1.309	0.00	H
ATOM	2620	C	MET	187	-22.793	7.284	6.241	31.86	C
ATOM	2621	O	MET	187	-23.166	6.139	6.512	32.58	O
ATOM	2622	N	GLY	188	-21.509	7.621	6.195	32.19	N

ATOM	2623	HN	GLY	188	-21.248	8.569	5.968	0.00	H
ATOM	2624	CA	GLY	188	-20.484	6.632	6.470	31.82	C
ATOM	2625	HA2	GLY	188	-19.548	6.989	6.127	0.00	H
ATOM	2626	HA3	GLY	188	-20.434	6.456	7.513	0.00	H
ATOM	2627	C	GLY	188	-20.704	5.283	5.811	32.13	C
ATOM	2628	O	GLY	188	-20.963	5.202	4.612	32.70	O
ATOM	2629	N	SER	189	-20.611	4.221	6.604	32.74	N
ATOM	2630	HN	SER	189	-20.426	4.384	7.582	0.00	H
ATOM	2631	CA	SER	189	-20.767	2.851	6.105	33.04	C
ATOM	2632	HA	SER	189	-19.934	2.598	5.503	0.00	H
ATOM	2633	CB	SER	189	-20.856	1.868	7.274	32.83	C
ATOM	2634	HB2	SER	189	-20.724	0.880	6.916	0.00	H
ATOM	2635	HB3	SER	189	-20.100	2.091	7.981	0.00	H
ATOM	2636	OG	SER	189	-22.121	1.960	7.910	34.06	O
ATOM	2637	HG	SER	189	-22.159	1.333	8.645	0.00	H
ATOM	2638	C	SER	189	-21.966	2.608	5.191	32.88	C
ATOM	2639	O	SER	189	-21.898	1.773	4.289	33.09	O
ATOM	2640	N	SER	190	-23.063	3.318	5.433	31.77	N
ATOM	2641	HN	SER	190	-23.053	3.986	6.189	0.00	H
ATOM	2642	CA	SER	190	-24.267	3.145	4.628	32.05	C
ATOM	2643	HA	SER	190	-24.441	2.112	4.470	0.00	H
ATOM	2644	CB	SER	190	-25.469	3.754	5.352	32.65	C
ATOM	2645	HB2	SER	190	-25.278	4.775	5.556	0.00	H
ATOM	2646	HB3	SER	190	-26.329	3.671	4.740	0.00	H
ATOM	2647	OG	SER	190	-25.716	3.084	6.576	35.24	O
ATOM	2648	HG	SER	190	-26.478	3.485	7.015	0.00	H
ATOM	2649	C	SER	190	-24.199	3.705	3.206	31.95	C
ATOM	2650	O	SER	190	-25.089	3.442	2.399	33.19	O
ATOM	2651	N	TYR	191	-23.169	4.482	2.891	30.96	N
ATOM	2652	HN	TYR	191	-22.466	4.692	3.584	0.00	H
ATOM	2653	CA	TYR	191	-23.053	5.031	1.548	31.78	C
ATOM	2654	HA	TYR	191	-24.002	5.367	1.221	0.00	H
ATOM	2655	CB	TYR	191	-22.076	6.209	1.534	32.80	C
ATOM	2656	HB2	TYR	191	-22.404	6.948	2.218	0.00	H
ATOM	2657	HB3	TYR	191	-21.112	5.872	1.815	0.00	H
ATOM	2658	CG	TYR	191	-21.920	6.899	0.190	31.97	C
ATOM	2659	CD1	TYR	191	-23.026	7.344	-0.520	31.58	C
ATOM	2660	HD1	TYR	191	-24.017	7.186	-0.128	0.00	H
ATOM	2661	CE1	TYR	191	-22.885	7.996	-1.738	31.19	C
ATOM	2662	HE1	TYR	191	-23.757	8.330	-2.274	0.00	H
ATOM	2663	CD2	TYR	191	-20.656	7.128	-0.355	32.75	C
ATOM	2664	HD2	TYR	191	-19.776	6.793	0.167	0.00	H
ATOM	2665	CE2	TYR	191	-20.503	7.786	-1.571	31.65	C
ATOM	2666	HE2	TYR	191	-19.518	7.958	-1.970	0.00	H
ATOM	2667	CZ	TYR	191	-21.624	8.214	-2.258	32.67	C
ATOM	2668	OH	TYR	191	-21.489	8.849	-3.477	34.43	O
ATOM	2669	HH	TYR	191	-22.364	9.070	-3.824	0.00	H
ATOM	2670	C	TYR	191	-22.557	3.910	0.652	32.88	C
ATOM	2671	O	TYR	191	-21.431	3.432	0.804	34.60	O
ATOM	2672	N	GLY	192	-23.405	3.486	-0.279	33.27	N
ATOM	2673	HN	GLY	192	-24.308	3.927	-0.365	0.00	H
ATOM	2674	CA	GLY	192	-23.042	2.400	-1.167	34.02	C
ATOM	2675	HA2	GLY	192	-22.799	1.543	-0.595	0.00	H
ATOM	2676	HA3	GLY	192	-23.857	2.179	-1.805	0.00	H
ATOM	2677	C	GLY	192	-21.859	2.592	-2.101	35.29	C
ATOM	2678	O	GLY	192	-20.972	1.740	-2.164	35.24	O
ATOM	2679	N	PHE	193	-21.826	3.713	-2.813	36.35	N
ATOM	2680	HN	PHE	193	-22.552	4.398	-2.667	0.00	H
ATOM	2681	CA	PHE	193	-20.769	3.966	-3.791	37.03	C
ATOM	2682	HA	PHE	193	-20.721	3.159	-4.475	0.00	H
ATOM	2683	CB	PHE	193	-21.077	5.255	-4.543	35.55	C
ATOM	2684	HB2	PHE	193	-21.104	6.064	-3.860	0.00	H
ATOM	2685	HB3	PHE	193	-20.324	5.429	-5.267	0.00	H
ATOM	2686	CG	PHE	193	-22.391	5.226	-5.258	35.57	C
ATOM	2687	CD1	PHE	193	-22.611	4.322	-6.289	34.49	C
ATOM	2688	HD1	PHE	193	-21.833	3.636	-6.579	0.00	H
ATOM	2689	CD2	PHE	193	-23.415	6.099	-4.902	36.33	C
ATOM	2690	HD2	PHE	193	-23.266	6.807	-4.104	0.00	H
ATOM	2691	CE1	PHE	193	-23.827	4.286	-6.959	33.64	C
ATOM	2692	HE1	PHE	193	-23.981	3.580	-7.758	0.00	H
ATOM	2693	CE2	PHE	193	-24.639	6.072	-5.567	35.24	C
ATOM	2694	HE2	PHE	193	-25.422	6.755	-5.282	0.00	H
ATOM	2695	CZ	PHE	193	-24.843	5.161	-6.598	35.27	C
ATOM	2696	HZ	PHE	193	-25.787	5.133	-7.116	0.00	H
ATOM	2697	C	PHE	193	-19.325	3.981	-3.319	37.51	C

ATOM	2698	O	PHE	193	-18.411	4.127	-4.130	37.24	O
ATOM	2699	N	GLN	194	-19.101	3.822	-2.023	39.33	N
ATOM	2700	HN	GLN	194	-19.869	3.701	-1.380	0.00	H
ATOM	2701	CA	GLN	194	-17.729	3.823	-1.528	41.71	C
ATOM	2702	HA	GLN	194	-17.139	4.468	-2.126	0.00	H
ATOM	2703	CB	GLN	194	-17.671	4.306	-0.082	41.01	C
ATOM	2704	HB2	GLN	194	-16.674	4.564	0.164	0.00	H
ATOM	2705	HB3	GLN	194	-18.293	5.155	0.032	0.00	H
ATOM	2706	CG	GLN	194	-18.127	3.282	0.918	40.81	C
ATOM	2707	HG2	GLN	194	-19.167	3.116	0.804	0.00	H
ATOM	2708	HG3	GLN	194	-17.605	2.375	0.757	0.00	H
ATOM	2709	CD	GLN	194	-17.871	3.731	2.330	41.80	C
ATOM	2710	OE1	GLN	194	-16.751	4.104	2.674	41.98	O
ATOM	2711	NE2	GLN	194	-18.907	3.694	3.165	42.10	N
ATOM	2712	HE21	GLN	194	-19.808	3.380	2.837	0.00	H
ATOM	2713	HE22	GLN	194	-18.791	3.980	4.126	0.00	H
ATOM	2714	C	GLN	194	-17.163	2.415	-1.590	43.36	C
ATOM	2715	O	GLN	194	-15.988	2.192	-1.287	43.99	O
ATOM	2716	N	TYR	195	-18.011	1.471	-1.990	43.80	N
ATOM	2717	HN	TYR	195	-18.945	1.754	-2.245	0.00	H
ATOM	2718	CA	TYR	195	-17.630	0.070	-2.066	43.07	C
ATOM	2719	HA	TYR	195	-16.698	-0.069	-1.582	0.00	H
ATOM	2720	CB	TYR	195	-18.686	-0.783	-1.383	41.34	C
ATOM	2721	HB2	TYR	195	-19.607	-0.684	-1.897	0.00	H
ATOM	2722	HB3	TYR	195	-18.382	-1.798	-1.395	0.00	H
ATOM	2723	CG	TYR	195	-18.964	-0.442	0.053	41.20	C
ATOM	2724	CD1	TYR	195	-17.964	-0.534	1.020	40.19	C
ATOM	2725	HD1	TYR	195	-16.956	-0.777	0.730	0.00	H
ATOM	2726	CE1	TYR	195	-18.244	-0.316	2.363	40.01	C
ATOM	2727	HE1	TYR	195	-17.458	-0.391	3.096	0.00	H
ATOM	2728	CD2	TYR	195	-20.254	-0.111	0.463	41.91	C
ATOM	2729	HD2	TYR	195	-21.044	-0.021	-0.264	0.00	H
ATOM	2730	CE2	TYR	195	-20.549	0.108	1.803	42.56	C
ATOM	2731	HE2	TYR	195	-21.553	0.361	2.099	0.00	H
ATOM	2732	CZ	TYR	195	-19.540	-0.002	2.750	42.38	C
ATOM	2733	OH	TYR	195	-19.847	0.165	4.082	45.04	O
ATOM	2734	HH	TYR	195	-19.052	0.030	4.615	0.00	H
ATOM	2735	C	TYR	195	-17.428	-0.502	-3.461	44.56	C
ATOM	2736	O	TYR	195	-18.161	-0.184	-4.395	45.04	O
ATOM	2737	N	SER	196	-16.428	-1.368	-3.588	46.44	N
ATOM	2738	HN	SER	196	-15.843	-1.548	-2.786	0.00	H
ATOM	2739	CA	SER	196	-16.167	-2.052	-4.850	46.37	C
ATOM	2740	HA	SER	196	-16.460	-1.430	-5.656	0.00	H
ATOM	2741	CB	SER	196	-14.681	-2.381	-5.002	44.33	C
ATOM	2742	HB2	SER	196	-14.491	-2.707	-5.991	0.00	H
ATOM	2743	HB3	SER	196	-14.105	-1.516	-4.799	0.00	H
ATOM	2744	OG	SER	196	-14.293	-3.404	-4.105	42.58	O
ATOM	2745	HG	SER	196	-13.352	-3.594	-4.220	0.00	H
ATOM	2746	C	SER	196	-16.981	-3.341	-4.698	47.90	C
ATOM	2747	O	SER	196	-17.306	-3.754	-3.572	47.07	O
ATOM	2748	N	PRO	197	-17.311	-4.002	-5.816	48.88	N
ATOM	2749	CD	PRO	197	-16.737	-3.805	-7.158	48.64	C
ATOM	2750	HD2	PRO	197	-16.796	-2.781	-7.420	0.00	H
ATOM	2751	HD3	PRO	197	-15.723	-4.111	-7.157	0.00	H
ATOM	2752	CA	PRO	197	-18.098	-5.241	-5.770	49.37	C
ATOM	2753	HA	PRO	197	-19.126	-5.003	-5.676	0.00	H
ATOM	2754	CB	PRO	197	-17.809	-5.875	-7.120	49.23	C
ATOM	2755	HB2	PRO	197	-16.940	-6.476	-7.049	0.00	H
ATOM	2756	HB3	PRO	197	-18.631	-6.476	-7.411	0.00	H
ATOM	2757	CG	PRO	197	-17.620	-4.684	-8.004	48.75	C
ATOM	2758	HG2	PRO	197	-17.161	-4.986	-8.909	0.00	H
ATOM	2759	HG3	PRO	197	-18.562	-4.247	-8.214	0.00	H
ATOM	2760	C	PRO	197	-17.739	-6.160	-4.605	50.27	C
ATOM	2761	O	PRO	197	-18.622	-6.636	-3.882	49.31	O
ATOM	2762	N	LYS	198	-16.443	-6.407	-4.425	51.39	N
ATOM	2763	HN	LYS	198	-15.771	-5.992	-5.054	0.00	H
ATOM	2764	CA	LYS	198	-15.990	-7.264	-3.337	52.32	C
ATOM	2765	HA	LYS	198	-16.466	-8.207	-3.409	0.00	H
ATOM	2766	CB	LYS	198	-14.477	-7.470	-3.400	53.33	C
ATOM	2767	HB2	LYS	198	-14.228	-7.984	-4.291	0.00	H
ATOM	2768	HB3	LYS	198	-13.992	-6.529	-3.388	0.00	H
ATOM	2769	CG	LYS	198	-13.936	-8.282	-2.233	55.35	C
ATOM	2770	HG2	LYS	198	-14.137	-7.773	-1.326	0.00	H
ATOM	2771	HG3	LYS	198	-14.405	-9.232	-2.216	0.00	H
ATOM	2772	CD	LYS	198	-12.432	-8.509	-2.314	57.91	C

ATOM	2773	HD2	LYS	198	-12.199	-9.015	-3.215	0.00	H
ATOM	2774	HD3	LYS	198	-11.933	-7.575	-2.295	0.00	H
ATOM	2775	CE	LYS	198	-11.948	-9.358	-1.125	59.42	C
ATOM	2776	HE2	LYS	198	-12.178	-8.860	-0.219	0.00	H
ATOM	2777	HE3	LYS	198	-12.432	-10.300	-1.143	0.00	H
ATOM	2778	NZ	LYS	198	-10.468	-9.625	-1.116	59.96	N1+
ATOM	2779	HZ1	LYS	198	-10.211	-10.121	-1.956	0.00	H
ATOM	2780	HZ2	LYS	198	-9.969	-8.749	-1.076	0.00	H
ATOM	2781	HZ3	LYS	198	-10.232	-10.184	-0.310	0.00	H
ATOM	2782	C	LYS	198	-16.344	-6.654	-1.986	52.07	C
ATOM	2783	O	LYS	198	-16.824	-7.340	-1.078	51.98	O
ATOM	2784	N	GLN	199	-16.110	-5.355	-1.864	50.73	N
ATOM	2785	HN	GLN	199	-15.743	-4.852	-2.658	0.00	H
ATOM	2786	CA	GLN	199	-16.372	-4.656	-0.620	50.55	C
ATOM	2787	HA	GLN	199	-15.950	-5.199	0.185	0.00	H
ATOM	2788	CB	GLN	199	-15.742	-3.270	-0.698	50.41	C
ATOM	2789	HB2	GLN	199	-16.318	-2.656	-1.341	0.00	H
ATOM	2790	HB3	GLN	199	-15.714	-2.840	0.269	0.00	H
ATOM	2791	CG	GLN	199	-14.325	-3.360	-1.240	49.93	C
ATOM	2792	HG2	GLN	199	-13.789	-4.100	-0.704	0.00	H
ATOM	2793	HG3	GLN	199	-14.355	-3.620	-2.266	0.00	H
ATOM	2794	CD	GLN	199	-13.551	-2.081	-1.128	48.80	C
ATOM	2795	OE1	GLN	199	-13.980	-1.031	-1.614	48.32	O
ATOM	2796	NE2	GLN	199	-12.386	-2.159	-0.493	48.71	N
ATOM	2797	HE21	GLN	199	-12.077	-3.041	-0.112	0.00	H
ATOM	2798	HE22	GLN	199	-11.810	-1.336	-0.392	0.00	H
ATOM	2799	C	GLN	199	-17.856	-4.581	-0.290	50.36	C
ATOM	2800	O	GLN	199	-18.249	-4.650	0.879	49.83	O
ATOM	2801	N	ARG	200	-18.685	-4.451	-1.319	49.54	N
ATOM	2802	HN	ARG	200	-18.315	-4.396	-2.256	0.00	H
ATOM	2803	CA	ARG	200	-20.119	-4.388	-1.099	48.82	C
ATOM	2804	HA	ARG	200	-20.340	-3.590	-0.439	0.00	H
ATOM	2805	CB	ARG	200	-20.856	-4.158	-2.423	48.43	C
ATOM	2806	HB2	ARG	200	-20.509	-3.262	-2.869	0.00	H
ATOM	2807	HB3	ARG	200	-20.672	-4.972	-3.075	0.00	H
ATOM	2808	CG	ARG	200	-22.361	-4.033	-2.273	47.04	C
ATOM	2809	HG2	ARG	200	-22.736	-4.878	-1.756	0.00	H
ATOM	2810	HG3	ARG	200	-22.590	-3.155	-1.727	0.00	H
ATOM	2811	CD	ARG	200	-23.055	-3.952	-3.619	47.60	C
ATOM	2812	HD2	ARG	200	-22.716	-3.094	-4.140	0.00	H
ATOM	2813	HD3	ARG	200	-22.831	-4.819	-4.184	0.00	H
ATOM	2814	NE	ARG	200	-24.509	-3.859	-3.473	46.81	N1+
ATOM	2815	HE	ARG	200	-25.092	-4.646	-3.715	0.00	H
ATOM	2816	CZ	ARG	200	-25.158	-2.785	-3.032	45.14	C
ATOM	2817	NH1	ARG	200	-24.485	-1.693	-2.690	44.90	N
ATOM	2818	HH11	ARG	200	-24.980	-0.880	-2.356	0.00	H
ATOM	2819	HH12	ARG	200	-23.479	-1.676	-2.764	0.00	H
ATOM	2820	NH2	ARG	200	-26.480	-2.809	-2.928	43.45	N
ATOM	2821	HH21	ARG	200	-26.975	-1.996	-2.594	0.00	H
ATOM	2822	HH22	ARG	200	-26.991	-3.641	-3.183	0.00	H
ATOM	2823	C	ARG	200	-20.569	-5.706	-0.475	49.16	C
ATOM	2824	O	ARG	200	-21.197	-5.720	0.584	48.47	O
ATOM	2825	N	VAL	201	-20.232	-6.815	-1.130	49.79	N
ATOM	2826	HN	VAL	201	-19.700	-6.736	-1.984	0.00	H
ATOM	2827	CA	VAL	201	-20.620	-8.131	-0.630	51.03	C
ATOM	2828	HA	VAL	201	-21.667	-8.252	-0.731	0.00	H
ATOM	2829	CB	VAL	201	-19.928	-9.283	-1.402	52.26	C
ATOM	2830	HB	VAL	201	-18.881	-9.228	-1.253	0.00	H
ATOM	2831	CG1	VAL	201	-20.405	-10.620	-0.859	51.68	C
ATOM	2832	HG11	VAL	201	-20.162	-10.690	0.169	0.00	H
ATOM	2833	HG12	VAL	201	-21.454	-10.696	-0.980	0.00	H
ATOM	2834	HG13	VAL	201	-19.931	-11.405	-1.388	0.00	H
ATOM	2835	CG2	VAL	201	-20.220	-9.181	-2.889	54.03	C
ATOM	2836	HG21	VAL	201	-21.265	-9.241	-3.048	0.00	H
ATOM	2837	HG22	VAL	201	-19.859	-8.256	-3.257	0.00	H
ATOM	2838	HG23	VAL	201	-19.739	-9.975	-3.398	0.00	H
ATOM	2839	C	VAL	201	-20.232	-8.268	0.831	50.33	C
ATOM	2840	O	VAL	201	-21.037	-8.699	1.664	49.53	O
ATOM	2841	N	GLU	202	-18.990	-7.891	1.125	49.63	N
ATOM	2842	HN	GLU	202	-18.411	-7.535	0.379	0.00	H
ATOM	2843	CA	GLU	202	-18.463	-7.980	2.473	49.36	C
ATOM	2844	HA	GLU	202	-18.435	-8.995	2.775	0.00	H
ATOM	2845	CB	GLU	202	-17.049	-7.407	2.540	50.68	C
ATOM	2846	HB2	GLU	202	-16.376	-8.072	2.065	0.00	H
ATOM	2847	HB3	GLU	202	-17.024	-6.469	2.048	0.00	H

ATOM	2848	CG	GLU	202	-16.577	-7.201	3.972	52.88	C
ATOM	2849	HG2	GLU	202	-17.216	-6.510	4.458	0.00	H
ATOM	2850	HG3	GLU	202	-16.599	-8.126	4.488	0.00	H
ATOM	2851	CD	GLU	202	-15.163	-6.660	4.071	53.96	C
ATOM	2852	OE1	GLU	202	-14.827	-5.736	3.293	54.66	O1-
ATOM	2853	OE2	GLU	202	-14.399	-7.151	4.938	54.15	O
ATOM	2854	C	GLU	202	-19.340	-7.273	3.486	48.60	C
ATOM	2855	O	GLU	202	-19.740	-7.869	4.484	49.62	O
ATOM	2856	N	PHE	203	-19.646	-6.007	3.231	47.42	N
ATOM	2857	HN	PHE	203	-19.297	-5.576	2.388	0.00	H
ATOM	2858	CA	PHE	203	-20.475	-5.241	4.151	46.35	C
ATOM	2859	HA	PHE	203	-20.001	-5.193	5.097	0.00	H
ATOM	2860	CB	PHE	203	-20.679	-3.816	3.619	44.74	C
ATOM	2861	HB2	PHE	203	-19.736	-3.358	3.466	0.00	H
ATOM	2862	HB3	PHE	203	-21.206	-3.854	2.701	0.00	H
ATOM	2863	CG	PHE	203	-21.463	-2.925	4.547	43.64	C
ATOM	2864	CD1	PHE	203	-20.932	-2.530	5.766	42.59	C
ATOM	2865	HD1	PHE	203	-19.946	-2.853	6.054	0.00	H
ATOM	2866	CD2	PHE	203	-22.743	-2.491	4.200	42.83	C
ATOM	2867	HD2	PHE	203	-23.174	-2.785	3.258	0.00	H
ATOM	2868	CE1	PHE	203	-21.665	-1.714	6.630	43.44	C
ATOM	2869	HE1	PHE	203	-21.243	-1.413	7.574	0.00	H
ATOM	2870	CE2	PHE	203	-23.479	-1.680	5.052	41.55	C
ATOM	2871	HE2	PHE	203	-24.465	-1.355	4.767	0.00	H
ATOM	2872	CZ	PHE	203	-22.941	-1.290	6.270	42.42	C
ATOM	2873	HZ	PHE	203	-23.507	-0.661	6.936	0.00	H
ATOM	2874	C	PHE	203	-21.830	-5.922	4.371	46.20	C
ATOM	2875	O	PHE	203	-22.316	-6.003	5.496	47.19	O
ATOM	2876	N	LEU	204	-22.435	-6.425	3.303	45.21	N
ATOM	2877	HN	LEU	204	-21.998	-6.362	2.396	0.00	H
ATOM	2878	CA	LEU	204	-23.727	-7.067	3.442	44.39	C
ATOM	2879	HA	LEU	204	-24.384	-6.427	3.972	0.00	H
ATOM	2880	CB	LEU	204	-24.322	-7.365	2.066	41.98	C
ATOM	2881	HB2	LEU	204	-23.592	-7.834	1.460	0.00	H
ATOM	2882	HB3	LEU	204	-25.157	-8.007	2.174	0.00	H
ATOM	2883	CG	LEU	204	-24.814	-6.141	1.284	38.89	C
ATOM	2884	HG	LEU	204	-23.994	-5.505	1.072	0.00	H
ATOM	2885	CD1	LEU	204	-25.450	-6.588	-0.012	37.07	C
ATOM	2886	HD11	LEU	204	-24.737	-7.113	-0.593	0.00	H
ATOM	2887	HD12	LEU	204	-26.270	-7.224	0.198	0.00	H
ATOM	2888	HD13	LEU	204	-25.789	-5.741	-0.550	0.00	H
ATOM	2889	CD2	LEU	204	-25.822	-5.359	2.107	36.00	C
ATOM	2890	HD21	LEU	204	-26.650	-5.979	2.334	0.00	H
ATOM	2891	HD22	LEU	204	-25.367	-5.034	3.007	0.00	H
ATOM	2892	HD23	LEU	204	-26.152	-4.518	1.555	0.00	H
ATOM	2893	C	LEU	204	-23.697	-8.329	4.301	45.84	C
ATOM	2894	O	LEU	204	-24.396	-8.405	5.313	46.38	O
ATOM	2895	N	VAL	205	-22.889	-9.317	3.926	47.11	N
ATOM	2896	HN	VAL	205	-22.316	-9.223	3.101	0.00	H
ATOM	2897	CA	VAL	205	-22.835	-10.548	4.720	47.44	C
ATOM	2898	HA	VAL	205	-23.788	-11.010	4.720	0.00	H
ATOM	2899	CB	VAL	205	-21.814	-11.562	4.163	47.02	C
ATOM	2900	HB	VAL	205	-20.888	-11.076	3.997	0.00	H
ATOM	2901	CG1	VAL	205	-21.590	-12.686	5.173	45.83	C
ATOM	2902	HG11	VAL	205	-21.219	-12.279	6.078	0.00	H
ATOM	2903	HG12	VAL	205	-22.507	-13.181	5.359	0.00	H
ATOM	2904	HG13	VAL	205	-20.888	-13.377	4.783	0.00	H
ATOM	2905	CG2	VAL	205	-22.328	-12.134	2.850	45.60	C
ATOM	2906	HG21	VAL	205	-23.254	-12.621	3.016	0.00	H
ATOM	2907	HG22	VAL	205	-22.462	-11.349	2.152	0.00	H
ATOM	2908	HG23	VAL	205	-21.626	-12.830	2.469	0.00	H
ATOM	2909	C	VAL	205	-22.484	-10.236	6.165	47.77	C
ATOM	2910	O	VAL	205	-23.148	-10.708	7.086	47.45	O
ATOM	2911	N	ASN	206	-21.437	-9.443	6.358	48.91	N
ATOM	2912	HN	ASN	206	-20.923	-9.107	5.557	0.00	H
ATOM	2913	CA	ASN	206	-21.028	-9.057	7.699	49.76	C
ATOM	2914	HA	ASN	206	-20.696	-9.913	8.227	0.00	H
ATOM	2915	CB	ASN	206	-19.892	-8.040	7.657	48.32	C
ATOM	2916	HB2	ASN	206	-20.016	-7.407	6.817	0.00	H
ATOM	2917	HB3	ASN	206	-19.906	-7.459	8.542	0.00	H
ATOM	2918	CG	ASN	206	-18.538	-8.692	7.551	48.00	C
ATOM	2919	OD1	ASN	206	-18.258	-9.668	8.245	48.00	O
ATOM	2920	ND2	ASN	206	-17.681	-8.151	6.693	47.49	N
ATOM	2921	HD21	ASN	206	-17.955	-7.350	6.144	0.00	H
ATOM	2922	HD22	ASN	206	-16.756	-8.541	6.590	0.00	H

ATOM	2923	C	ASN	206	-22.208	-8.442	8.428	51.49	C
ATOM	2924	O	ASN	206	-22.460	-8.752	9.594	51.95	O
ATOM	2925	N	THR	207	-22.935	-7.569	7.737	52.94	N
ATOM	2926	HN	THR	207	-22.683	-7.358	6.783	0.00	H
ATOM	2927	CA	THR	207	-24.084	-6.921	8.345	55.04	C
ATOM	2928	HA	THR	207	-23.779	-6.411	9.221	0.00	H
ATOM	2929	CB	THR	207	-24.744	-5.889	7.387	54.35	C
ATOM	2930	HB	THR	207	-25.014	-6.369	6.483	0.00	H
ATOM	2931	OG1	THR	207	-23.818	-4.833	7.109	51.78	O
ATOM	2932	HG1	THR	207	-24.229	-4.192	6.513	0.00	H
ATOM	2933	CG2	THR	207	-25.999	-5.290	8.025	52.83	C
ATOM	2934	HG21	THR	207	-26.694	-6.062	8.229	0.00	H
ATOM	2935	HG22	THR	207	-25.738	-4.802	8.928	0.00	H
ATOM	2936	HG23	THR	207	-26.434	-4.591	7.359	0.00	H
ATOM	2937	C	THR	207	-25.108	-7.977	8.728	57.28	C
ATOM	2938	O	THR	207	-25.731	-7.892	9.786	58.32	O
ATOM	2939	N	TRP	208	-25.271	-8.983	7.875	59.44	N
ATOM	2940	HN	TRP	208	-24.720	-9.012	7.030	0.00	H
ATOM	2941	CA	TRP	208	-26.236	-10.039	8.151	62.19	C
ATOM	2942	HA	TRP	208	-27.174	-9.607	8.385	0.00	H
ATOM	2943	CB	TRP	208	-26.395	-10.950	6.924	63.65	C
ATOM	2944	HB2	TRP	208	-26.563	-10.357	6.063	0.00	H
ATOM	2945	HB3	TRP	208	-25.513	-11.521	6.792	0.00	H
ATOM	2946	CG	TRP	208	-27.544	-11.909	7.047	65.34	C
ATOM	2947	CD2	TRP	208	-28.888	-11.695	6.600	66.17	C
ATOM	2948	CE2	TRP	208	-29.641	-12.824	6.992	66.42	C
ATOM	2949	CE3	TRP	208	-29.530	-10.656	5.914	65.83	C
ATOM	2950	HE3	TRP	208	-28.972	-9.786	5.610	0.00	H
ATOM	2951	CD1	TRP	208	-27.537	-13.123	7.667	65.67	C
ATOM	2952	HD1	TRP	208	-26.623	-13.507	8.088	0.00	H
ATOM	2953	NE1	TRP	208	-28.791	-13.679	7.641	65.58	N
ATOM	2954	HE1	TRP	208	-28.952	-14.581	8.063	0.00	H
ATOM	2955	CZ2	TRP	208	-31.006	-12.946	6.717	66.74	C
ATOM	2956	HZ2	TRP	208	-31.542	-13.825	7.032	0.00	H
ATOM	2957	CZ3	TRP	208	-30.887	-10.777	5.641	66.32	C
ATOM	2958	HZ3	TRP	208	-31.402	-9.992	5.113	0.00	H
ATOM	2959	CH2	TRP	208	-31.610	-11.916	6.044	67.04	C
ATOM	2960	HH2	TRP	208	-32.661	-11.967	5.812	0.00	H
ATOM	2961	C	TRP	208	-25.837	-10.862	9.379	63.29	C
ATOM	2962	O	TRP	208	-26.686	-11.187	10.219	63.76	O
ATOM	2963	N	LYS	209	-24.547	-11.185	9.488	63.69	N
ATOM	2964	HN	LYS	209	-23.918	-10.872	8.764	0.00	H
ATOM	2965	CA	LYS	209	-24.035	-11.969	10.614	63.64	C
ATOM	2966	HA	LYS	209	-24.627	-12.839	10.736	0.00	H
ATOM	2967	CB	LYS	209	-22.588	-12.383	10.358	63.58	C
ATOM	2968	HB2	LYS	209	-22.015	-11.528	10.109	0.00	H
ATOM	2969	HB3	LYS	209	-22.190	-12.833	11.230	0.00	H
ATOM	2970	CG	LYS	209	-22.435	-13.375	9.228	64.94	C
ATOM	2971	HG2	LYS	209	-23.072	-14.204	9.397	0.00	H
ATOM	2972	HG3	LYS	209	-22.695	-12.910	8.313	0.00	H
ATOM	2973	CD	LYS	209	-21.007	-13.874	9.129	65.83	C
ATOM	2974	HD2	LYS	209	-20.373	-13.076	8.842	0.00	H
ATOM	2975	HD3	LYS	209	-20.698	-14.249	10.070	0.00	H
ATOM	2976	CE	LYS	209	-20.889	-14.982	8.101	67.01	C
ATOM	2977	HE2	LYS	209	-21.519	-15.787	8.376	0.00	H
ATOM	2978	HE3	LYS	209	-21.180	-14.615	7.151	0.00	H
ATOM	2979	NZ	LYS	209	-19.491	-15.491	8.001	68.14	N1+
ATOM	2980	HZ1	LYS	209	-18.877	-14.738	7.729	0.00	H
ATOM	2981	HZ2	LYS	209	-19.201	-15.855	8.896	0.00	H
ATOM	2982	HZ3	LYS	209	-19.449	-16.225	7.310	0.00	H
ATOM	2983	C	LYS	209	-24.114	-11.232	11.946	63.56	C
ATOM	2984	O	LYS	209	-24.517	-11.806	12.959	64.18	O
ATOM	2985	N	SER	210	-23.729	-9.962	11.946	63.15	N
ATOM	2986	HN	SER	210	-23.409	-9.550	11.082	0.00	H
ATOM	2987	CA	SER	210	-23.763	-9.165	13.165	62.60	C
ATOM	2988	HA	SER	210	-23.077	-9.564	13.867	0.00	H
ATOM	2989	CB	SER	210	-23.381	-7.717	12.857	61.76	C
ATOM	2990	HB2	SER	210	-23.412	-7.147	13.749	0.00	H
ATOM	2991	HB3	SER	210	-22.402	-7.688	12.453	0.00	H
ATOM	2992	OG	SER	210	-24.279	-7.154	11.922	61.19	O
ATOM	2993	HG	SER	210	-24.023	-6.240	11.739	0.00	H
ATOM	2994	C	SER	210	-25.134	-9.194	13.841	62.80	C
ATOM	2995	O	SER	210	-25.232	-9.001	15.051	62.44	O
ATOM	2996	N	LYS	211	-26.186	-9.431	13.058	63.39	N
ATOM	2997	HN	LYS	211	-26.020	-9.579	12.074	0.00	H

ATOM	2998	CA	LYS	211	-27.550	-9.480	13.586	63.93	C
ATOM	2999	HA	LYS	211	-27.667	-8.737	14.332	0.00	H
ATOM	3000	CB	LYS	211	-28.581	-9.228	12.475	63.69	C
ATOM	3001	HB2	LYS	211	-28.620	-10.069	11.833	0.00	H
ATOM	3002	HB3	LYS	211	-29.535	-9.069	12.908	0.00	H
ATOM	3003	CG	LYS	211	-28.305	-8.016	11.583	62.95	C
ATOM	3004	HG2	LYS	211	-27.356	-8.123	11.126	0.00	H
ATOM	3005	HG3	LYS	211	-29.052	-7.951	10.835	0.00	H
ATOM	3006	CD	LYS	211	-28.307	-6.712	12.364	60.72	C
ATOM	3007	HD2	LYS	211	-29.251	-6.579	12.826	0.00	H
ATOM	3008	HD3	LYS	211	-27.552	-6.744	13.106	0.00	H
ATOM	3009	CE	LYS	211	-28.043	-5.531	11.458	57.48	C
ATOM	3010	HE2	LYS	211	-27.104	-5.653	10.984	0.00	H
ATOM	3011	HE3	LYS	211	-28.804	-5.472	10.724	0.00	H
ATOM	3012	NZ	LYS	211	-28.028	-4.267	12.236	56.63	N1+
ATOM	3013	HZ1	LYS	211	-28.921	-4.139	12.687	0.00	H
ATOM	3014	HZ2	LYS	211	-27.302	-4.311	12.935	0.00	H
ATOM	3015	HZ3	LYS	211	-27.851	-3.492	11.615	0.00	H
ATOM	3016	C	LYS	211	-27.829	-10.844	14.200	64.77	C
ATOM	3017	O	LYS	211	-27.388	-11.872	13.679	64.63	O
ATOM	3018	N	LYS	212	-28.568	-10.851	15.306	65.78	N
ATOM	3019	HN	LYS	212	-28.890	-9.972	15.682	0.00	H
ATOM	3020	CA	LYS	212	-28.915	-12.102	15.975	66.43	C
ATOM	3021	HA	LYS	212	-28.032	-12.651	16.177	0.00	H
ATOM	3022	CB	LYS	212	-29.639	-11.824	17.295	67.60	C
ATOM	3023	HB2	LYS	212	-30.504	-11.242	17.108	0.00	H
ATOM	3024	HB3	LYS	212	-29.921	-12.741	17.743	0.00	H
ATOM	3025	CG	LYS	212	-28.799	-11.068	18.309	68.84	C
ATOM	3026	HG2	LYS	212	-27.888	-11.585	18.468	0.00	H
ATOM	3027	HG3	LYS	212	-28.594	-10.096	17.943	0.00	H
ATOM	3028	CD	LYS	212	-29.517	-10.937	19.644	70.32	C
ATOM	3029	HD2	LYS	212	-30.385	-10.342	19.521	0.00	H
ATOM	3030	HD3	LYS	212	-29.794	-11.898	19.992	0.00	H
ATOM	3031	CE	LYS	212	-28.617	-10.279	20.691	70.76	C
ATOM	3032	HE2	LYS	212	-27.689	-10.788	20.729	0.00	H
ATOM	3033	HE3	LYS	212	-28.453	-9.266	20.429	0.00	H
ATOM	3034	NZ	LYS	212	-29.221	-10.312	22.059	70.84	N1+
ATOM	3035	HZ1	LYS	212	-30.102	-9.820	22.050	0.00	H
ATOM	3036	HZ2	LYS	212	-29.374	-11.270	22.336	0.00	H
ATOM	3037	HZ3	LYS	212	-28.595	-9.869	22.714	0.00	H
ATOM	3038	C	LYS	212	-29.817	-12.892	15.034	66.13	C
ATOM	3039	O	LYS	212	-29.367	-13.836	14.389	66.83	O
ATOM	3040	N	CYS	213	-31.087	-12.501	14.962	65.25	N
ATOM	3041	HN	CYS	213	-31.378	-11.736	15.553	0.00	H
ATOM	3042	CA	CYS	213	-32.049	-13.139	14.067	64.54	C
ATOM	3043	HA	CYS	213	-31.630	-14.029	13.675	0.00	H
ATOM	3044	CB	CYS	213	-33.350	-13.473	14.813	65.19	C
ATOM	3045	HB2	CYS	213	-33.119	-13.967	15.721	0.00	H
ATOM	3046	HB3	CYS	213	-33.877	-12.578	15.022	0.00	H
ATOM	3047	SG	CYS	213	-34.515	-14.562	13.913	65.25	S
ATOM	3048	HG	CYS	213	-35.529	-14.760	14.617	0.00	H
ATOM	3049	C	CYS	213	-32.318	-12.111	12.962	63.96	C
ATOM	3050	O	CYS	213	-33.255	-11.308	13.049	63.52	O
ATOM	3051	N	PRO	214	-31.484	-12.118	11.907	62.72	N
ATOM	3052	CD	PRO	214	-30.402	-13.077	11.630	61.97	C
ATOM	3053	HD2	PRO	214	-29.509	-12.746	12.094	0.00	H
ATOM	3054	HD3	PRO	214	-30.667	-14.028	12.013	0.00	H
ATOM	3055	CA	PRO	214	-31.638	-11.176	10.793	62.17	C
ATOM	3056	HA	PRO	214	-31.443	-10.192	11.133	0.00	H
ATOM	3057	CB	PRO	214	-30.535	-11.598	9.818	61.24	C
ATOM	3058	HB2	PRO	214	-30.862	-11.436	8.824	0.00	H
ATOM	3059	HB3	PRO	214	-29.664	-11.025	10.001	0.00	H
ATOM	3060	CG	PRO	214	-30.341	-13.037	10.123	61.80	C
ATOM	3061	HG2	PRO	214	-31.114	-13.601	9.670	0.00	H
ATOM	3062	HG3	PRO	214	-29.404	-13.355	9.745	0.00	H
ATOM	3063	C	PRO	214	-33.007	-11.121	10.131	61.17	C
ATOM	3064	O	PRO	214	-33.889	-11.939	10.399	62.40	O
ATOM	3065	N	MET	215	-33.159	-10.114	9.280	58.50	N
ATOM	3066	HN	MET	215	-32.362	-9.504	9.181	0.00	H
ATOM	3067	CA	MET	215	-34.369	-9.859	8.516	55.98	C
ATOM	3068	HA	MET	215	-34.664	-10.745	8.016	0.00	H
ATOM	3069	CB	MET	215	-35.511	-9.410	9.420	55.48	C
ATOM	3070	HB2	MET	215	-35.667	-10.133	10.178	0.00	H
ATOM	3071	HB3	MET	215	-35.265	-8.481	9.864	0.00	H
ATOM	3072	CG	MET	215	-36.830	-9.229	8.685	56.24	C

ATOM	3073	HG2	MET	215	-37.062	-10.114	8.152	0.00	H
ATOM	3074	HG3	MET	215	-37.599	-9.027	9.384	0.00	H
ATOM	3075	SD	MET	215	-36.854	-7.868	7.473	56.74	S
ATOM	3076	CE	MET	215	-37.925	-6.681	8.339	54.13	C
ATOM	3077	HE1	MET	215	-38.874	-7.120	8.509	0.00	H
ATOM	3078	HE2	MET	215	-37.486	-6.421	9.267	0.00	H
ATOM	3079	HE3	MET	215	-38.040	-5.811	7.746	0.00	H
ATOM	3080	C	MET	215	-33.975	-8.725	7.593	54.75	C
ATOM	3081	O	MET	215	-33.378	-7.743	8.032	54.19	O
ATOM	3082	N	GLY	216	-34.290	-8.862	6.314	52.92	N
ATOM	3083	HN	GLY	216	-34.783	-9.678	5.984	0.00	H
ATOM	3084	CA	GLY	216	-33.917	-7.820	5.386	51.38	C
ATOM	3085	HA2	GLY	216	-33.921	-6.886	5.884	0.00	H
ATOM	3086	HA3	GLY	216	-32.947	-8.015	5.008	0.00	H
ATOM	3087	C	GLY	216	-34.832	-7.685	4.196	49.83	C
ATOM	3088	O	GLY	216	-35.475	-8.642	3.775	50.03	O
ATOM	3089	N	PHE	217	-34.886	-6.477	3.653	47.80	N
ATOM	3090	HN	PHE	217	-34.335	-5.737	4.061	0.00	H
ATOM	3091	CA	PHE	217	-35.715	-6.209	2.495	44.94	C
ATOM	3092	HA	PHE	217	-35.800	-7.088	1.911	0.00	H
ATOM	3093	CB	PHE	217	-37.114	-5.763	2.927	44.79	C
ATOM	3094	HB2	PHE	217	-37.678	-5.493	2.072	0.00	H
ATOM	3095	HB3	PHE	217	-37.597	-6.558	3.433	0.00	H
ATOM	3096	CG	PHE	217	-37.116	-4.580	3.853	43.74	C
ATOM	3097	CD1	PHE	217	-36.900	-4.749	5.218	44.00	C
ATOM	3098	HD1	PHE	217	-36.743	-5.736	5.620	0.00	H
ATOM	3099	CD2	PHE	217	-37.316	-3.294	3.357	42.77	C
ATOM	3100	HD2	PHE	217	-37.485	-3.143	2.304	0.00	H
ATOM	3101	CE1	PHE	217	-36.884	-3.652	6.081	43.60	C
ATOM	3102	HE1	PHE	217	-36.717	-3.798	7.135	0.00	H
ATOM	3103	CE2	PHE	217	-37.301	-2.194	4.206	42.47	C
ATOM	3104	HE2	PHE	217	-37.456	-1.205	3.809	0.00	H
ATOM	3105	CZ	PHE	217	-37.085	-2.371	5.572	42.94	C
ATOM	3106	HZ	PHE	217	-37.073	-1.521	6.233	0.00	H
ATOM	3107	C	PHE	217	-35.082	-5.129	1.647	42.60	C
ATOM	3108	O	PHE	217	-34.128	-4.475	2.053	42.27	O
ATOM	3109	N	SER	218	-35.615	-4.968	0.451	40.67	N
ATOM	3110	HN	SER	218	-36.375	-5.575	0.181	0.00	H
ATOM	3111	CA	SER	218	-35.139	-3.957	-0.462	38.60	C
ATOM	3112	HA	SER	218	-34.279	-3.491	-0.055	0.00	H
ATOM	3113	CB	SER	218	-34.776	-4.588	-1.810	37.87	C
ATOM	3114	HB2	SER	218	-34.416	-3.838	-2.465	0.00	H
ATOM	3115	HB3	SER	218	-34.025	-5.321	-1.666	0.00	H
ATOM	3116	OG	SER	218	-35.903	-5.207	-2.408	37.63	O
ATOM	3117	HG	SER	218	-35.646	-5.596	-3.255	0.00	H
ATOM	3118	C	SER	218	-36.343	-3.047	-0.598	38.39	C
ATOM	3119	O	SER	218	-37.478	-3.477	-0.375	38.14	O
ATOM	3120	N	TYR	219	-36.109	-1.785	-0.923	38.29	N
ATOM	3121	HN	TYR	219	-35.164	-1.461	-1.063	0.00	H
ATOM	3122	CA	TYR	219	-37.220	-0.867	-1.078	37.89	C
ATOM	3123	HA	TYR	219	-38.131	-1.405	-1.034	0.00	H
ATOM	3124	CB	TYR	219	-37.226	0.188	0.024	37.70	C
ATOM	3125	HB2	TYR	219	-37.067	-0.279	0.961	0.00	H
ATOM	3126	HB3	TYR	219	-36.454	0.890	-0.155	0.00	H
ATOM	3127	CG	TYR	219	-38.531	0.951	0.106	35.80	C
ATOM	3128	CD1	TYR	219	-39.648	0.399	0.733	34.33	C
ATOM	3129	HD1	TYR	219	-39.582	-0.572	1.194	0.00	H
ATOM	3130	CE1	TYR	219	-40.851	1.078	0.776	34.25	C
ATOM	3131	HE1	TYR	219	-41.701	0.637	1.268	0.00	H
ATOM	3132	CD2	TYR	219	-38.657	2.210	-0.475	34.79	C
ATOM	3133	HD2	TYR	219	-37.811	2.666	-0.961	0.00	H
ATOM	3134	CE2	TYR	219	-39.854	2.900	-0.444	34.57	C
ATOM	3135	HE2	TYR	219	-39.928	3.872	-0.903	0.00	H
ATOM	3136	CZ	TYR	219	-40.951	2.333	0.179	35.92	C
ATOM	3137	OH	TYR	219	-42.154	3.009	0.168	35.02	O
ATOM	3138	HH	TYR	219	-42.827	2.477	0.614	0.00	H
ATOM	3139	C	TYR	219	-37.117	-0.204	-2.430	39.14	C
ATOM	3140	O	TYR	219	-36.175	0.539	-2.723	40.22	O
ATOM	3141	N	ASP	220	-38.095	-0.500	-3.265	39.64	N
ATOM	3142	HN	ASP	220	-38.825	-1.122	-2.952	0.00	H
ATOM	3143	CA	ASP	220	-38.135	0.045	-4.599	39.75	C
ATOM	3144	HA	ASP	220	-37.170	0.385	-4.870	0.00	H
ATOM	3145	CB	ASP	220	-38.587	-1.039	-5.569	40.70	C
ATOM	3146	HB2	ASP	220	-37.772	-1.678	-5.789	0.00	H
ATOM	3147	HB3	ASP	220	-39.369	-1.602	-5.129	0.00	H

ATOM	3148	CG	ASP	220	-39.098	-0.475	-6.871	43.08	C
ATOM	3149	OD1	ASP	220	-38.275	0.070	-7.641	44.04	O
ATOM	3150	OD2	ASP	220	-40.328	-0.571	-7.115	43.48	O1-
ATOM	3151	C	ASP	220	-39.105	1.213	-4.607	39.95	C
ATOM	3152	O	ASP	220	-40.322	1.030	-4.520	40.51	O
ATOM	3153	N	THR	221	-38.564	2.421	-4.691	39.69	N
ATOM	3154	HN	THR	221	-37.561	2.520	-4.741	0.00	H
ATOM	3155	CA	THR	221	-39.410	3.597	-4.711	39.55	C
ATOM	3156	HA	THR	221	-40.213	3.465	-4.034	0.00	H
ATOM	3157	CB	THR	221	-38.642	4.856	-4.306	39.25	C
ATOM	3158	HB	THR	221	-37.985	5.136	-5.088	0.00	H
ATOM	3159	OG1	THR	221	-37.882	4.594	-3.118	40.22	O
ATOM	3160	HG1	THR	221	-37.397	5.391	-2.863	0.00	H
ATOM	3161	CG2	THR	221	-39.614	5.994	-4.038	37.95	C
ATOM	3162	HG21	THR	221	-40.174	6.194	-4.915	0.00	H
ATOM	3163	HG22	THR	221	-40.271	5.720	-3.254	0.00	H
ATOM	3164	HG23	THR	221	-39.074	6.861	-3.758	0.00	H
ATOM	3165	C	THR	221	-39.960	3.776	-6.114	40.79	C
ATOM	3166	O	THR	221	-39.237	3.653	-7.106	41.74	O
ATOM	3167	N	ARG	222	-41.252	4.058	-6.191	41.69	N
ATOM	3168	HN	ARG	222	-41.776	4.139	-5.332	0.00	H
ATOM	3169	CA	ARG	222	-41.917	4.249	-7.468	41.66	C
ATOM	3170	HA	ARG	222	-41.664	3.454	-8.120	0.00	H
ATOM	3171	CB	ARG	222	-43.430	4.271	-7.254	43.44	C
ATOM	3172	HB2	ARG	222	-43.747	3.333	-6.878	0.00	H
ATOM	3173	HB3	ARG	222	-43.677	5.032	-6.560	0.00	H
ATOM	3174	CG	ARG	222	-44.252	4.537	-8.495	44.74	C
ATOM	3175	HG2	ARG	222	-43.920	5.432	-8.953	0.00	H
ATOM	3176	HG3	ARG	222	-44.140	3.731	-9.172	0.00	H
ATOM	3177	CD	ARG	222	-45.702	4.676	-8.116	46.49	C
ATOM	3178	HD2	ARG	222	-46.053	3.758	-7.721	0.00	H
ATOM	3179	HD3	ARG	222	-45.805	5.437	-7.386	0.00	H
ATOM	3180	NE	ARG	222	-46.539	5.027	-9.255	51.07	N1+
ATOM	3181	HE	ARG	222	-47.304	4.426	-9.523	0.00	H
ATOM	3182	CZ	ARG	222	-46.373	6.115	-10.001	53.75	C
ATOM	3183	NH1	ARG	222	-45.386	6.964	-9.727	56.35	N
ATOM	3184	HH11	ARG	222	-45.259	7.790	-10.293	0.00	H
ATOM	3185	HH12	ARG	222	-44.764	6.782	-8.954	0.00	H
ATOM	3186	NH2	ARG	222	-47.202	6.361	-11.010	52.50	N
ATOM	3187	HH21	ARG	222	-47.076	7.187	-11.576	0.00	H
ATOM	3188	HH22	ARG	222	-47.957	5.722	-11.210	0.00	H
ATOM	3189	C	ARG	222	-41.463	5.554	-8.092	40.28	C
ATOM	3190	O	ARG	222	-41.810	6.620	-7.600	41.69	O
ATOM	3191	N	CYS	223	-40.688	5.468	-9.170	39.44	N
ATOM	3192	HN	CYS	223	-40.443	4.548	-9.504	0.00	H
ATOM	3193	CA	CYS	223	-40.192	6.658	-9.869	38.34	C
ATOM	3194	HA	CYS	223	-39.425	6.377	-10.543	0.00	H
ATOM	3195	CB	CYS	223	-41.323	7.308	-10.656	40.10	C
ATOM	3196	HB2	CYS	223	-42.060	7.666	-9.985	0.00	H
ATOM	3197	HB3	CYS	223	-40.939	8.116	-11.223	0.00	H
ATOM	3198	SG	CYS	223	-42.138	6.199	-11.796	45.91	S
ATOM	3199	HG	CYS	223	-43.047	6.812	-12.396	0.00	H
ATOM	3200	C	CYS	223	-39.629	7.675	-8.887	36.65	C
ATOM	3201	O	CYS	223	-40.152	8.787	-8.765	36.22	O
ATOM	3202	N	PHE	224	-38.553	7.293	-8.204	34.12	N
ATOM	3203	HN	PHE	224	-38.168	6.382	-8.403	0.00	H
ATOM	3204	CA	PHE	224	-37.933	8.141	-7.199	31.58	C
ATOM	3205	HA	PHE	224	-38.550	8.179	-6.339	0.00	H
ATOM	3206	CB	PHE	224	-36.563	7.581	-6.808	31.66	C
ATOM	3207	HB2	PHE	224	-36.645	6.540	-6.629	0.00	H
ATOM	3208	HB3	PHE	224	-35.875	7.751	-7.595	0.00	H
ATOM	3209	CG	PHE	224	-35.990	8.209	-5.564	33.20	C
ATOM	3210	CD1	PHE	224	-35.458	9.503	-5.595	31.38	C
ATOM	3211	HD1	PHE	224	-35.398	10.038	-6.528	0.00	H
ATOM	3212	CD2	PHE	224	-36.047	7.535	-4.336	31.45	C
ATOM	3213	HD2	PHE	224	-36.446	6.536	-4.288	0.00	H
ATOM	3214	CE1	PHE	224	-34.998	10.119	-4.424	29.79	C
ATOM	3215	HE1	PHE	224	-34.592	11.116	-4.464	0.00	H
ATOM	3216	CE2	PHE	224	-35.589	8.145	-3.159	29.83	C
ATOM	3217	HE2	PHE	224	-35.640	7.615	-2.223	0.00	H
ATOM	3218	CZ	PHE	224	-35.067	9.439	-3.205	30.04	C
ATOM	3219	HZ	PHE	224	-34.718	9.913	-2.303	0.00	H
ATOM	3220	C	PHE	224	-37.797	9.609	-7.584	30.65	C
ATOM	3221	O	PHE	224	-38.241	10.490	-6.851	28.97	O
ATOM	3222	N	ASP	225	-37.193	9.878	-8.734	30.70	N

ATOM	3223	HN	ASP	225	-36.867	9.120	-9.315	0.00	H
ATOM	3224	CA	ASP	225	-37.000	11.252	-9.158	29.81	C
ATOM	3225	HA	ASP	225	-36.381	11.753	-8.460	0.00	H
ATOM	3226	CB	ASP	225	-36.335	11.299	-10.537	30.36	C
ATOM	3227	HB2	ASP	225	-36.862	10.668	-11.205	0.00	H
ATOM	3228	HB3	ASP	225	-36.351	12.293	-10.903	0.00	H
ATOM	3229	CG	ASP	225	-34.889	10.836	-10.494	33.85	C
ATOM	3230	OD1	ASP	225	-34.399	10.547	-9.381	35.25	O
ATOM	3231	OD2	ASP	225	-34.234	10.760	-11.558	34.98	O1-
ATOM	3232	C	ASP	225	-38.271	12.075	-9.149	28.41	C
ATOM	3233	O	ASP	225	-38.283	13.194	-8.633	29.04	O
ATOM	3234	N	SER	226	-39.348	11.537	-9.701	27.89	N
ATOM	3235	HN	SER	226	-39.320	10.611	-10.101	0.00	H
ATOM	3236	CA	SER	226	-40.585	12.303	-9.725	28.39	C
ATOM	3237	HA	SER	226	-40.400	13.259	-10.142	0.00	H
ATOM	3238	CB	SER	226	-41.651	11.597	-10.567	29.94	C
ATOM	3239	HB2	SER	226	-42.561	12.135	-10.507	0.00	H
ATOM	3240	HB3	SER	226	-41.332	11.553	-11.576	0.00	H
ATOM	3241	OG	SER	226	-41.878	10.277	-10.110	35.92	O
ATOM	3242	HG	SER	226	-42.554	9.857	-10.659	0.00	H
ATOM	3243	C	SER	226	-41.101	12.536	-8.320	27.25	C
ATOM	3244	O	SER	226	-41.823	13.495	-8.074	27.31	O
ATOM	3245	N	THR	227	-40.713	11.676	-7.387	27.68	N
ATOM	3246	HN	THR	227	-40.095	10.914	-7.622	0.00	H
ATOM	3247	CA	THR	227	-41.183	11.836	-6.022	27.79	C
ATOM	3248	HA	THR	227	-42.183	12.184	-6.032	0.00	H
ATOM	3249	CB	THR	227	-41.142	10.513	-5.243	29.27	C
ATOM	3250	HB	THR	227	-41.723	10.604	-4.362	0.00	H
ATOM	3251	OG1	THR	227	-39.792	10.207	-4.872	31.85	O
ATOM	3252	HG1	THR	227	-39.773	9.373	-4.382	0.00	H
ATOM	3253	CG2	THR	227	-41.702	9.389	-6.098	30.42	C
ATOM	3254	HG21	THR	227	-42.705	9.609	-6.358	0.00	H
ATOM	3255	HG22	THR	227	-41.122	9.293	-6.979	0.00	H
ATOM	3256	HG23	THR	227	-41.670	8.481	-5.553	0.00	H
ATOM	3257	C	THR	227	-40.398	12.874	-5.241	27.00	C
ATOM	3258	O	THR	227	-40.855	13.309	-4.188	28.47	O
ATOM	3259	N	VAL	228	-39.224	13.268	-5.737	26.42	N
ATOM	3260	HN	VAL	228	-38.896	12.860	-6.600	0.00	H
ATOM	3261	CA	VAL	228	-38.412	14.279	-5.048	25.54	C
ATOM	3262	HA	VAL	228	-38.336	14.031	-4.021	0.00	H
ATOM	3263	CB	VAL	228	-36.982	14.365	-5.635	25.62	C
ATOM	3264	HB	VAL	228	-37.038	14.471	-6.687	0.00	H
ATOM	3265	CG1	VAL	228	-36.245	15.567	-5.063	23.01	C
ATOM	3266	HG11	VAL	228	-36,772	16.453	-5.307	0.00	H
ATOM	3267	HG12	VAL	228	-36.180	15.473	-4.010	0.00	H
ATOM	3268	HG13	VAL	228	-35.270	15.612	-5.474	0.00	H
ATOM	3269	CG2	VAL	228	-36.222	13.104	-5.295	24.29	C
ATOM	3270	HG21	VAL	228	-36.166	12.998	-4.243	0.00	H
ATOM	3271	HG22	VAL	228	-36.724	12.268	-5.708	0.00	H
ATOM	3272	HG23	VAL	228	-35.244	13.162	-5.696	0.00	H
ATOM	3273	C	VAL	228	-39.094	15.647	-5.135	25.24	C
ATOM	3274	O	VAL	228	-39.371	16.155	-6.227	25.50	O
ATOM	3275	N	THR	229	-39.348	16.233	-3.969	24.31	N
ATOM	3276	HN	THR	229	-39.033	15.750	-3.141	0.00	H
ATOM	3277	CA	THR	229	-40.047	17.515	-3.848	22.82	C
ATOM	3278	HA	THR	229	-40.637	17.678	-4.712	0.00	H
ATOM	3279	CB	THR	229	-40.947	17.494	-2.616	20.04	C
ATOM	3280	HB	THR	229	-41.564	18.355	-2.615	0.00	H
ATOM	3281	OG1	THR	229	-40.133	17.477	-1.437	16.03	O
ATOM	3282	HG1	THR	229	-40.700	17.464	-0.654	0.00	H
ATOM	3283	CG2	THR	229	-41.820	16.259	-2.629	17.89	C
ATOM	3284	HG21	THR	229	-42.423	16.262	-3.499	0.00	H
ATOM	3285	HG22	THR	229	-41.208	15.394	-2.627	0.00	H
ATOM	3286	HG23	THR	229	-42.439	16.256	-1.770	0.00	H
ATOM	3287	C	THR	229	-39.175	18.765	-3.744	24.33	C
ATOM	3288	O	THR	229	-37.989	18.697	-3.426	24.58	O
ATOM	3289	N	GLU	230	-39.779	19.917	-4.001	25.36	N
ATOM	3290	HN	GLU	230	-40.753	19.919	-4.266	0.00	H
ATOM	3291	CA	GLU	230	-39.049	21.171	-3.904	26.88	C
ATOM	3292	HA	GLU	230	-38.272	21.184	-4.624	0.00	H
ATOM	3293	CB	GLU	230	-39.981	22.363	-4.159	29.09	C
ATOM	3294	HB2	GLU	230	-40.742	22.380	-3.423	0.00	H
ATOM	3295	HB3	GLU	230	-39.424	23.263	-4.111	0.00	H
ATOM	3296	CG	GLU	230	-40.675	22.345	-5.511	32.43	C
ATOM	3297	HG2	GLU	230	-40.843	23.339	-5.835	0.00	H

ATOM	3298	HG3	GLU	230	-40.063	21.843	-6.215	0.00	H
ATOM	3299	CD	GLU	230	-42.017	21.634	-5.467	35.24	C
ATOM	3300	OE1	GLU	230	-42.103	20.532	-4.862	36.17	O1-
ATOM	3301	OE2	GLU	230	-42.982	22.183	-6.044	35.06	O
ATOM	3302	C	GLU	230	-38.480	21.259	-2.491	25.90	C
ATOM	3303	O	GLU	230	-37.381	21.772	-2.263	25.63	O
ATOM	3304	N	SER	231	-39.243	20.738	-1.541	24.29	N
ATOM	3305	HN	SER	231	-40.127	20.325	-1.799	0.00	H
ATOM	3306	CA	SER	231	-38.830	20.754	-0.156	22.81	C
ATOM	3307	HA	SER	231	-38.567	21.741	0.123	0.00	H
ATOM	3308	CB	SER	231	-39.977	20.267	0.719	20.49	C
ATOM	3309	HB2	SER	231	-40.806	20.917	0.609	0.00	H
ATOM	3310	HB3	SER	231	-40.254	19.288	0.425	0.00	H
ATOM	3311	OG	SER	231	-39.598	20.242	2.076	18.36	O
ATOM	3312	HG	SER	231	-40.340	19.930	2.612	0.00	H
ATOM	3313	C	SER	231	-37.595	19.873	0.029	24.01	C
ATOM	3314	O	SER	231	-36.629	20.290	0.665	25.37	O
ATOM	3315	N	ASP	232	-37.622	18.665	-0.534	22.90	N
ATOM	3316	HN	ASP	232	-38.446	18.388	-1.046	0.00	H
ATOM	3317	CA	ASP	232	-36.491	17.749	-0.421	22.68	C
ATOM	3318	HA	ASP	232	-36.327	17.515	0.599	0.00	H
ATOM	3319	CB	ASP	232	-36.757	16.450	-1.186	23.61	C
ATOM	3320	HB2	ASP	232	-37.018	16.677	-2.187	0.00	H
ATOM	3321	HB3	ASP	232	-35.885	15.849	-1.176	0.00	H
ATOM	3322	CG	ASP	232	-37.882	15.638	-0.590	26.72	C
ATOM	3323	OD1	ASP	232	-38.018	15.625	0.660	24.14	O
ATOM	3324	OD2	ASP	232	-38.616	14.995	-1.378	27.31	O1-
ATOM	3325	C	ASP	232	-35.201	18.361	-0.958	21.99	C
ATOM	3326	O	ASP	232	-34.133	18.228	-0.354	20.73	O
ATOM	3327	N	ILE	233	-35.313	19.020	-2.106	20.97	N
ATOM	3328	HN	ILE	233	-36.229	19.072	-2.526	0.00	H
ATOM	3329	CA	ILE	233	-34.178	19.653	-2.757	20.24	C
ATOM	3330	HA	ILE	233	-33.357	18.984	-2.765	0.00	H
ATOM	3331	CB	ILE	233	-34.581	20.015	-4.217	18.35	C
ATOM	3332	HB	ILE	233	-35.505	20.532	-4.210	0.00	H
ATOM	3333	CG2	ILE	233	-33.550	20.904	-4.903	14.51	C
ATOM	3334	HG21	ILE	233	-33.445	21.807	-4.360	0.00	H
ATOM	3335	HG22	ILE	233	-32.618	20.402	-4.937	0.00	H
ATOM	3336	HG23	ILE	233	-33.870	21.120	-5.889	0.00	H
ATOM	3337	CG1	ILE	233	-34.739	18.713	-5.001	14.92	C
ATOM	3338	HG12	ILE	233	-33.789	18.382	-5.331	0.00	H
ATOM	3339	HG13	ILE	233	-35.172	17.975	-4.377	0.00	H
ATOM	3340	CD1	ILE	233	-35.617	18.831	-6.224	12.96	C
ATOM	3341	HD11	ILE	233	-36.588	19.139	-5.933	0.00	H
ATOM	3342	HD12	ILE	233	-35.204	19.546	-6.887	0.00	H
ATOM	3343	HD13	ILE	233	-35.675	17.891	-6.709	0.00	H
ATOM	3344	C	ILE	233	-33.672	20.857	-1.933	21.80	C
ATOM	3345	O	ILE	233	-32.468	21.134	-1.895	22.06	O
ATOM	3346	N	ARG	234	-34.573	21.548	-1.243	21.53	N
ATOM	3347	HN	ARG	234	-35.549	21.299	-1.303	0.00	H
ATOM	3348	CA	ARG	234	-34.155	22.665	-0.400	21.34	C
ATOM	3349	HA	ARG	234	-33.395	23.214	-0.893	0.00	H
ATOM	3350	CB	ARG	234	-35.335	23.598	-0.116	21.32	C
ATOM	3351	HB2	ARG	234	-36.239	23.050	-0.170	0.00	H
ATOM	3352	HB3	ARG	234	-35.231	24.013	0.853	0.00	H
ATOM	3353	CG	ARG	234	-35.420	24.737	-1.105	22.34	C
ATOM	3354	HG2	ARG	234	-34.691	25.467	-0.867	0.00	H
ATOM	3355	HG3	ARG	234	-35.245	24.369	-2.083	0.00	H
ATOM	3356	CD	ARG	234	-36.767	25.390	-1.080	26.50	C
ATOM	3357	HD2	ARG	234	-37.519	24.652	-1.182	0.00	H
ATOM	3358	HD3	ARG	234	-36.895	25.899	-0.161	0.00	H
ATOM	3359	NE	ARG	234	-36.926	26.358	-2.165	29.20	N1+
ATOM	3360	HE	ARG	234	-36.135	26.902	-2.475	0.00	H
ATOM	3361	CZ	ARG	234	-38.078	26.578	-2.792	27.52	C
ATOM	3362	NH1	ARG	234	-39.161	25.897	-2.441	29.98	N
ATOM	3363	HH11	ARG	234	-40.036	26.062	-2.915	0.00	H
ATOM	3364	HH12	ARG	234	-39.109	25.214	-1.700	0.00	H
ATOM	3365	NH2	ARG	234	-38.154	27.474	-3.762	26.45	N
ATOM	3366	HH21	ARG	234	-39.032	27.635	-4.233	0.00	H
ATOM	3367	HH22	ARG	234	-37.334	27.997	-4.031	0.00	H
ATOM	3368	C	ARG	234	-33.544	22.162	0.909	20.81	C
ATOM	3369	O	ARG	234	-32.665	22.807	1.481	21.08	O
ATOM	3370	N	VAL	235	-34.010	21.011	1.378	20.04	N
ATOM	3371	HN	VAL	235	-34.747	20.549	0.866	0.00	H
ATOM	3372	CA	VAL	235	-33.484	20.412	2.600	20.93	C

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ATOM   3373  HA  VAL  235     -33.491  21.131   3.377     0.00          H
ATOM   3374  CB  VAL  235     -34.326  19.200   3.054    20.19          C
ATOM   3375  HB  VAL  235     -34.498  18.560   2.228     0.00          H
ATOM   3376  CG1 VAL  235     -33.576  18.410   4.099    21.38          C
ATOM   3377 HG11 VAL  235     -32.661  18.065   3.692     0.00          H
ATOM   3378 HG12 VAL  235     -33.379  19.029   4.935     0.00          H
ATOM   3379 HG13 VAL  235     -34.162  17.582   4.403     0.00          H
ATOM   3380  CG2 VAL  235     -35.650  19.660   3.603    19.54          C
ATOM   3381 HG21 VAL  235     -35.486  20.297   4.433     0.00          H
ATOM   3382 HG22 VAL  235     -36.179  20.187   2.852     0.00          H
ATOM   3383 HG23 VAL  235     -36.216  18.819   3.910     0.00          H
ATOM   3384  C   VAL  235     -32.089  19.924   2.263    21.75          C
ATOM   3385  O   VAL  235     -31.140  20.129   3.013    21.92          O
ATOM   3386  N   GLU  236     -31.981  19.264   1.120    22.70          N
ATOM   3387  HN  GLU  236     -32.816  19.116   0.573     0.00          H
ATOM   3388  CA  GLU  236     -30.707  18.759   0.649    23.77          C
ATOM   3389  HA  GLU  236     -30.369  17.993   1.298     0.00          H
ATOM   3390  CB  GLU  236     -30.904  18.205  -0.756    24.79          C
ATOM   3391  HB2 GLU  236     -31.407  17.275  -0.701     0.00          H
ATOM   3392  HB3 GLU  236     -31.481  18.886  -1.326     0.00          H
ATOM   3393  CG  GLU  236     -29.656  17.951  -1.559    25.93          C
ATOM   3394  HG2 GLU  236     -29.133  18.862  -1.696     0.00          H
ATOM   3395  HG3 GLU  236     -29.038  17.263  -1.043     0.00          H
ATOM   3396  CD  GLU  236     -29.985  17.374  -2.923    29.61          C
ATOM   3397  OE1 GLU  236     -29.102  17.423  -3.813    31.11          O1-
ATOM   3398  OE2 GLU  236     -31.125  16.866  -3.103    28.65          O
ATOM   3399  C   GLU  236     -29.725  19.937   0.654    25.12          C
ATOM   3400  O   GLU  236     -28.571  19.813   1.083    25.08          O
ATOM   3401  N   GLU  237     -30.198  21.092   0.200    23.15          N
ATOM   3402  HN  GLU  237     -31.150  21.148  -0.130     0.00          H
ATOM   3403  CA  GLU  237     -29.355  22.267   0.178    22.47          C
ATOM   3404  HA  GLU  237     -28.498  22.075  -0.413     0.00          H
ATOM   3405  CB  GLU  237     -30.085  23.464  -0.407    23.00          C
ATOM   3406 HB2 GLU  237     -30.679  23.150  -1.226     0.00          H
ATOM   3407 HB3 GLU  237     -30.706  23.896   0.334     0.00          H
ATOM   3408  CG  GLU  237     -29.135  24.529  -0.900    23.19          C
ATOM   3409  HG2 GLU  237     -28.247  24.504  -0.324     0.00          H
ATOM   3410  HG3 GLU  237     -28.901  24.350  -1.917     0.00          H
ATOM   3411  CD  GLU  237     -29.710  25.911  -0.797    25.59          C
ATOM   3412  OE1 GLU  237     -30.905  26.082  -1.111    25.15          O1-
ATOM   3413  OE2 GLU  237     -28.958  26.827  -0.409    26.48          O
ATOM   3414  C   GLU  237     -28.918  22.620   1.589    23.82          C
ATOM   3415  O   GLU  237     -27.742  22.902   1.816    24.75          O
ATOM   3416  N   SER  238     -29.852  22.624   2.537    21.97          N
ATOM   3417  HN  SER  238     -30.809  22.396   2.314     0.00          H
ATOM   3418  CA  SER  238     -29.486  22.958   3.896    20.50          C
ATOM   3419  HA  SER  238     -29.159  23.964   3.936     0.00          H
ATOM   3420  CB  SER  238     -30.676  22.790   4.831    21.00          C
ATOM   3421  HB2 SER  238     -30.469  23.265   5.755     0.00          H
ATOM   3422  HB3 SER  238     -31.534  23.230   4.393     0.00          H
ATOM   3423  OG  SER  238     -30.947  21.425   5.078    20.61          O
ATOM   3424  HG  SER  238     -31.705  21.350   5.673     0.00          H
ATOM   3425  C   SER  238     -28.341  22.047   4.327    21.85          C
ATOM   3426  O   SER  238     -27.534  22.412   5.189    21.75          O
ATOM   3427  N   ILE  239     -28.258  20.861   3.734    20.90          N
ATOM   3428  HN  ILE  239     -28.938  20.574   3.046     0.00          H
ATOM   3429  CA  ILE  239     -27.164  19.971   4.092    22.90          C
ATOM   3430  HA  ILE  239     -27.015  19.999   5.140     0.00          H
ATOM   3431  CB  ILE  239     -27.435  18.502   3.691    21.00          C
ATOM   3432  HB  ILE  239     -27.623  18.449   2.650     0.00          H
ATOM   3433 CG2 ILE  239     -26.211  17.646   4.033    18.83          C
ATOM   3434 HG21 ILE  239     -25.368  18.007   3.503     0.00          H
ATOM   3435 HG22 ILE  239     -26.023  17.699   5.074     0.00          H
ATOM   3436 HG23 ILE  239     -26.396  16.640   3.759     0.00          H
ATOM   3437 CG1 ILE  239     -28.653  17.969   4.455    20.79          C
ATOM   3438 HG12 ILE  239     -28.424  17.910   5.487     0.00          H
ATOM   3439 HG13 ILE  239     -29.473  18.624   4.313     0.00          H
ATOM   3440 CD1 ILE  239     -29.107  16.593   4.024    18.82          C
ATOM   3441 HD11 ILE  239     -29.370  16.613   2.998     0.00          H
ATOM   3442 HD12 ILE  239     -28.321  15.899   4.173     0.00          H
ATOM   3443 HD13 ILE  239     -29.948  16.303   4.599     0.00          H
ATOM   3444  C   ILE  239     -25.876  20.457   3.428    24.22          C
ATOM   3445  O   ILE  239     -24.852  20.568   4.079    28.20          O
ATOM   3446  N   TYR  240     -25.915  20.759   2.138    24.26          N
ATOM   3447  HN  TYR  240     -26.770  20.648   1.614     0.00          H
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ATOM	3448	CA	TYR	240	-24.717	21.253	1.478	23.43	C
ATOM	3449	HA	TYR	240	-23.957	20.517	1.529	0.00	H
ATOM	3450	CB	TYR	240	-25.002	21.569	0.011	23.86	C
ATOM	3451	HB2	TYR	240	-25.752	22.314	-0.050	0.00	H
ATOM	3452	HB3	TYR	240	-24.117	21.920	-0.453	0.00	H
ATOM	3453	CG	TYR	240	-25.483	20.397	-0.795	23.46	C
ATOM	3454	CD1	TYR	240	-24.992	19.117	-0.554	23.87	C
ATOM	3455	HD1	TYR	240	-24.291	18.951	0.246	0.00	H
ATOM	3456	CE1	TYR	240	-25.391	18.038	-1.331	26.60	C
ATOM	3457	HE1	TYR	240	-25.000	17.055	-1.129	0.00	H
ATOM	3458	CD2	TYR	240	-26.394	20.573	-1.836	24.06	C
ATOM	3459	HD2	TYR	240	-26.794	21.552	-2.042	0.00	H
ATOM	3460	CE2	TYR	240	-26.804	19.500	-2.626	24.86	C
ATOM	3461	HE2	TYR	240	-27.508	19.658	-3.426	0.00	H
ATOM	3462	CZ	TYR	240	-26.295	18.236	-2.368	27.01	C
ATOM	3463	OH	TYR	240	-26.657	17.177	-3.162	29.35	O
ATOM	3464	HH	TYR	240	-26.197	16.380	-2.866	0.00	H
ATOM	3465	C	TYR	240	-24.197	22.524	2.155	23.54	C
ATOM	3466	O	TYR	240	-22.995	22.663	2.356	23.83	O
ATOM	3467	N	GLN	241	-25.104	23.445	2.490	22.29	N
ATOM	3468	HN	GLN	241	-26.069	23.229	2.290	0.00	H
ATOM	3469	CA	GLN	241	-24.754	24.719	3.119	20.85	C
ATOM	3470	HA	GLN	241	-24.023	25.213	2.533	0.00	H
ATOM	3471	CB	GLN	241	-25.989	25.610	3.231	22.02	C
ATOM	3472	HB2	GLN	241	-26.778	25.065	3.680	0.00	H
ATOM	3473	HB3	GLN	241	-25.761	26.456	3.826	0.00	H
ATOM	3474	CG	GLN	241	-26.535	26.147	1.913	22.64	C
ATOM	3475	HG2	GLN	241	-26.657	25.347	1.229	0.00	H
ATOM	3476	HG3	GLN	241	-27.471	26.613	2.082	0.00	H
ATOM	3477	CD	GLN	241	-25.622	27.170	1.267	23.67	C
ATOM	3478	OE1	GLN	241	-24.658	27.627	1.874	25.29	O
ATOM	3479	NE2	GLN	241	-25.934	27.546	0.035	22.68	N
ATOM	3480	HE21	GLN	241	-26.736	27.144	-0.427	0.00	H
ATOM	3481	HE22	GLN	241	-25.370	28.234	-0.441	0.00	H
ATOM	3482	C	GLN	241	-24.114	24.587	4.500	22.39	C
ATOM	3483	O	GLN	241	-23.792	25.600	5.150	22.08	O
ATOM	3484	N	CYS	242	-23.937	23.352	4.958	20.83	N
ATOM	3485	HN	CYS	242	-24.250	22.568	4.405	0.00	H
ATOM	3486	CA	CYS	242	-23.299	23.125	6.244	19.52	C
ATOM	3487	HA	CYS	242	-23.536	23.921	6.901	0.00	H
ATOM	3488	CB	CYS	242	-23.814	21.840	6.875	18.89	C
ATOM	3489	HB2	CYS	242	-23.961	21.111	6.121	0.00	H
ATOM	3490	HB3	CYS	242	-23.106	21.484	7.578	0.00	H
ATOM	3491	SG	CYS	242	-25.372	22.063	7.732	24.51	S
ATOM	3492	HG	CYS	242	-25.736	20.973	8.225	0.00	H
ATOM	3493	C	CYS	242	-21.788	23.050	6.088	19.01	C
ATOM	3494	O	CYS	242	-21.054	23.205	7.061	18.68	O
ATOM	3495	N	CYS	243	-21.332	22.816	4.862	18.46	N
ATOM	3496	HN	CYS	243	-22.009	22.707	4.121	0.00	H
ATOM	3497	CA	CYS	243	-19.909	22.715	4.569	21.22	C
ATOM	3498	HA	CYS	243	-19.448	22.074	5.275	0.00	H
ATOM	3499	CB	CYS	243	-19.689	22.152	3.160	20.34	C
ATOM	3500	HB2	CYS	243	-20.085	22.826	2.445	0.00	H
ATOM	3501	HB3	CYS	243	-18.652	22.025	2.989	0.00	H
ATOM	3502	SG	CYS	243	-20.460	20.556	2.841	24.56	S
ATOM	3503	HG	CYS	243	-20.213	20.201	1.668	0.00	H
ATOM	3504	C	CYS	243	-19.260	24.090	4.645	22.57	C
ATOM	3505	O	CYS	243	-19.955	25.102	4.674	23.21	O
ATOM	3506	N	ASP	244	-17.930	24.118	4.694	22.46	N
ATOM	3507	HN	ASP	244	-17.428	23.243	4.717	0.00	H
ATOM	3508	CA	ASP	244	-17.201	25.373	4.714	23.35	C
ATOM	3509	HA	ASP	244	-17.772	26.105	5.224	0.00	H
ATOM	3510	CB	ASP	244	-15.855	25.215	5.427	22.79	C
ATOM	3511	HB2	ASP	244	-16.018	24.888	6.421	0.00	H
ATOM	3512	HB3	ASP	244	-15.265	24.501	4.913	0.00	H
ATOM	3513	CG	ASP	244	-15.070	26.515	5.486	22.48	C
ATOM	3514	OD1	ASP	244	-14.469	26.923	4.469	22.31	O
ATOM	3515	OD2	ASP	244	-15.069	27.147	6.559	22.91	O1-
ATOM	3516	C	ASP	244	-16.989	25.681	3.233	24.69	C
ATOM	3517	O	ASP	244	-16.121	25.093	2.574	26.69	O
ATOM	3518	N	LEU	245	-17.786	26.607	2.714	24.38	N
ATOM	3519	HN	LEU	245	-18.439	27.075	3.324	0.00	H
ATOM	3520	CA	LEU	245	-17.734	26.952	1.302	24.07	C
ATOM	3521	HA	LEU	245	-17.109	26.265	0.794	0.00	H
ATOM	3522	CB	LEU	245	-19.144	26.889	0.726	21.21	C

ATOM	3523	HB2	LEU	245	-19.748	27.624	1.191	0.00	H
ATOM	3524	HB3	LEU	245	-19.108	27.070	-0.317	0.00	H
ATOM	3525	CG	LEU	245	-19.839	25.550	0.923	18.49	C
ATOM	3526	HG	LEU	245	-19.617	25.176	1.889	0.00	H
ATOM	3527	CD1	LEU	245	-21.320	25.728	0.786	21.24	C
ATOM	3528	HD11	LEU	245	-21.662	26.413	1.517	0.00	H
ATOM	3529	HD12	LEU	245	-21.543	26.102	-0.180	0.00	H
ATOM	3530	HD13	LEU	245	-21.802	24.795	0.923	0.00	H
ATOM	3531	CD2	LEU	245	-19.317	24.557	-0.072	18.12	C
ATOM	3532	HD21	LEU	245	-19.505	24.908	-1.053	0.00	H
ATOM	3533	HD22	LEU	245	-18.274	24.434	0.066	0.00	H
ATOM	3534	HD23	LEU	245	-19.803	23.627	0.069	0.00	H
ATOM	3535	C	LEU	245	-17.145	28.312	0.987	23.24	C
ATOM	3536	O	LEU	245	-17.162	29.219	1.811	23.79	O
ATOM	3537	N	ALA	246	-16.612	28.440	-0.219	22.79	N
ATOM	3538	HN	ALA	246	-16.583	27.642	-0.835	0.00	H
ATOM	3539	CA	ALA	246	-16.072	29.715	-0.657	23.23	C
ATOM	3540	HA	ALA	246	-15.430	30.102	0.091	0.00	H
ATOM	3541	CB	ALA	246	-15.284	29.538	-1.945	20.84	C
ATOM	3542	HB1	ALA	246	-14.486	28.862	-1.780	0.00	H
ATOM	3543	HB2	ALA	246	-15.921	29.155	-2.699	0.00	H
ATOM	3544	HB3	ALA	246	-14.896	30.474	-2.253	0.00	H
ATOM	3545	C	ALA	246	-17.291	30.629	-0.896	23.71	C
ATOM	3546	O	ALA	246	-18.365	30.164	-1.323	22.45	O
ATOM	3547	N	PRO	247	-17.151	31.936	-0.615	22.42	N
ATOM	3548	CD	PRO	247	-16.009	32.692	-0.079	21.06	C
ATOM	3549	HD2	PRO	247	-15.602	32.175	0.751	0.00	H
ATOM	3550	HD3	PRO	247	-15.269	32.793	-0.830	0.00	H
ATOM	3551	CA	PRO	247	-18.282	32.831	-0.829	22.25	C
ATOM	3552	HA	PRO	247	-18.976	32.719	-0.037	0.00	H
ATOM	3553	CB	PRO	247	-17.632	34.205	-0.765	20.76	C
ATOM	3554	HB2	PRO	247	-17.192	34.431	-1.701	0.00	H
ATOM	3555	HB3	PRO	247	-18.366	34.933	-0.535	0.00	H
ATOM	3556	CG	PRO	247	-16.655	34.013	0.302	19.17	C
ATOM	3557	HG2	PRO	247	-15.970	34.821	0.303	0.00	H
ATOM	3558	HG3	PRO	247	-17.155	33.973	1.235	0.00	H
ATOM	3559	C	PRO	247	-19.036	32.574	-2.129	22.43	C
ATOM	3560	O	PRO	247	-20.246	32.373	-2.108	24.40	O
ATOM	3561	N	GLU	248	-18.340	32.550	-3.257	22.02	N
ATOM	3562	HN	GLU	248	-17.339	32.677	-3.255	0.00	H
ATOM	3563	CA	GLU	248	-19.041	32.337	-4.508	22.69	C
ATOM	3564	HA	GLU	248	-19.913	32.937	-4.531	0.00	H
ATOM	3565	CB	GLU	248	-18.138	32.715	-5.673	23.99	C
ATOM	3566	HB2	GLU	248	-17.248	32.143	-5.630	0.00	H
ATOM	3567	HB3	GLU	248	-18.639	32.520	-6.585	0.00	H
ATOM	3568	CG	GLU	248	-17.750	34.176	-5.661	24.07	C
ATOM	3569	HG2	GLU	248	-18.616	34.770	-5.528	0.00	H
ATOM	3570	HG3	GLU	248	-17.074	34.355	-4.866	0.00	H
ATOM	3571	CD	GLU	248	-17.085	34.607	-6.941	26.12	C
ATOM	3572	OE1	GLU	248	-16.744	33.719	-7.756	25.39	O1-
ATOM	3573	OE2	GLU	248	-16.901	35.833	-7.130	28.35	O
ATOM	3574	C	GLU	248	-19.588	30.920	-4.667	23.59	C
ATOM	3575	O	GLU	248	-20.535	30.693	-5.420	25.19	O
ATOM	3576	N	ALA	249	-19.005	29.965	-3.957	23.15	N
ATOM	3577	HN	ALA	249	-18.223	30.189	-3.360	0.00	H
ATOM	3578	CA	ALA	249	-19.489	28.599	-4.037	21.33	C
ATOM	3579	HA	ALA	249	-19.619	28.330	-5.053	0.00	H
ATOM	3580	CB	ALA	249	-18.498	27.664	-3.400	20.82	C
ATOM	3581	HB1	ALA	249	-17.570	27.735	-3.906	0.00	H
ATOM	3582	HB2	ALA	249	-18.367	27.928	-2.383	0.00	H
ATOM	3583	HB3	ALA	249	-18.859	26.670	-3.463	0.00	H
ATOM	3584	C	ALA	249	-20.807	28.571	-3.278	22.03	C
ATOM	3585	O	ALA	249	-21.816	28.051	-3.748	21.54	O
ATOM	3586	N	ARG	250	-20.804	29.160	-2.095	22.59	N
ATOM	3587	HN	ARG	250	-19.963	29.594	-1.744	0.00	H
ATOM	3588	CA	ARG	250	-22.014	29.181	-1.302	23.29	C
ATOM	3589	HA	ARG	250	-22.299	28.189	-1.067	0.00	H
ATOM	3590	CB	ARG	250	-21.776	29.955	-0.008	23.90	C
ATOM	3591	HB2	ARG	250	-20.878	29.621	0.443	0.00	H
ATOM	3592	HB3	ARG	250	-21.700	30.989	-0.224	0.00	H
ATOM	3593	CG	ARG	250	-22.879	29.790	1.013	26.71	C
ATOM	3594	HG2	ARG	250	-23.757	30.268	0.664	0.00	H
ATOM	3595	HG3	ARG	250	-23.072	28.759	1.160	0.00	H
ATOM	3596	CD	ARG	250	-22.503	30.402	2.355	25.86	C
ATOM	3597	HD2	ARG	250	-22.181	31.400	2.210	0.00	H

ATOM	3598	HD3	ARG	250	-23.346	30.393	2.996	0.00	H
ATOM	3599	NE	ARG	250	-21.427	29.684	3.029	24.74	N1+
ATOM	3600	HE	ARG	250	-20.476	30.013	2.953	0.00	H
ATOM	3601	CZ	ARG	250	-21.587	28.590	3.766	25.75	C
ATOM	3602	NH1	ARG	250	-22.791	28.059	3.939	24.65	N
ATOM	3603	HH11	ARG	250	-22.900	27.228	4.501	0.00	H
ATOM	3604	HH12	ARG	250	-23.597	28.486	3.509	0.00	H
ATOM	3605	NH2	ARG	250	-20.532	28.040	4.351	26.82	N
ATOM	3606	HH21	ARG	250	-20.643	27.209	4.913	0.00	H
ATOM	3607	HH22	ARG	250	-19.618	28.452	4.234	0.00	H
ATOM	3608	C	ARG	250	-23.162	29.802	-2.086	23.70	C
ATOM	3609	O	ARG	250	-24.294	29.338	-1.993	23.39	O
ATOM	3610	N	GLN	251	-22.873	30.838	-2.873	24.22	N
ATOM	3611	HN	GLN	251	-21.919	31.162	-2.927	0.00	H
ATOM	3612	CA	GLN	251	-23.918	31.504	-3.654	23.62	C
ATOM	3613	HA	GLN	251	-24.795	31.592	-3.067	0.00	H
ATOM	3614	CB	GLN	251	-23.482	32.899	-4.086	22.35	C
ATOM	3615	HB2	GLN	251	-23.279	33.487	-3.229	0.00	H
ATOM	3616	HB3	GLN	251	-22.608	32.828	-4.680	0.00	H
ATOM	3617	CG	GLN	251	-24.550	33.628	-4.911	22.26	C
ATOM	3618	HG2	GLN	251	-24.134	34.508	-5.328	0.00	H
ATOM	3619	HG3	GLN	251	-24.888	32.994	-5.689	0.00	H
ATOM	3620	CD	GLN	251	-25.758	34.032	-4.083	23.37	C
ATOM	3621	OE1	GLN	251	-26.901	33.740	-4.434	24.45	O
ATOM	3622	NE2	GLN	251	-25.509	34.710	-2.981	22.19	N
ATOM	3623	HE21	GLN	251	-24.557	34.930	-2.728	0.00	H
ATOM	3624	HE22	GLN	251	-26.270	35.010	-2.390	0.00	H
ATOM	3625	C	GLN	251	-24.329	30.720	-4.894	24.81	C
ATOM	3626	O	GLN	251	-25.510	30.693	-5.252	23.72	O
ATOM	3627	N	ALA	252	-23.353	30.103	-5.558	24.34	N
ATOM	3628	HN	ALA	252	-22.406	30.188	-5.221	0.00	H
ATOM	3629	CA	ALA	252	-23.634	29.315	-6.754	22.92	C
ATOM	3630	HA	ALA	252	-24.118	29.924	-7.472	0.00	H
ATOM	3631	CB	ALA	252	-22.339	28.777	-7.351	20.58	C
ATOM	3632	HB1	ALA	252	-21.707	29.586	-7.611	0.00	H
ATOM	3633	HB2	ALA	252	-21.851	28.163	-6.640	0.00	H
ATOM	3634	HB3	ALA	252	-22.559	28.208	-8.217	0.00	H
ATOM	3635	C	ALA	252	-24.566	28.164	-6.391	21.61	C
ATOM	3636	O	ALA	252	-25.487	27.836	-7.142	21.86	O
ATOM	3637	N	ILE	253	-24.322	27.558	-5.235	19.63	N
ATOM	3638	HN	ILE	253	-23.552	27.886	-4.672	0.00	H
ATOM	3639	CA	ILE	253	-25.139	26.442	-4.774	19.39	C
ATOM	3640	HA	ILE	253	-25.180	25.699	-5.528	0.00	H
ATOM	3641	CB	ILE	253	-24.523	25.825	-3.480	19.31	C
ATOM	3642	HB	ILE	253	-24.242	26.602	-2.818	0.00	H
ATOM	3643	CG2	ILE	253	-25.524	24.929	-2.785	18.94	C
ATOM	3644	HG21	ILE	253	-26.380	25.494	-2.520	0.00	H
ATOM	3645	HG22	ILE	253	-25.807	24.144	-3.437	0.00	H
ATOM	3646	HG23	ILE	253	-25.086	24.522	-1.911	0.00	H
ATOM	3647	CG1	ILE	253	-23.255	25.044	-3.844	18.20	C
ATOM	3648	HG12	ILE	253	-23.524	24.096	-4.232	0.00	H
ATOM	3649	HG13	ILE	253	-22.706	25.582	-4.573	0.00	H
ATOM	3650	CD1	ILE	253	-22.313	24.791	-2.688	17.19	C
ATOM	3651	HD11	ILE	253	-21.996	25.716	-2.282	0.00	H
ATOM	3652	HD12	ILE	253	-22.813	24.231	-1.941	0.00	H
ATOM	3653	HD13	ILE	253	-21.471	24.249	-3.031	0.00	H
ATOM	3654	C	ILE	253	-26.576	26.908	-4.535	18.09	C
ATOM	3655	O	ILE	253	-27.530	26.216	-4.886	15.97	O
ATOM	3656	N	ARG	254	-26.707	28.096	-3.948	18.29	N
ATOM	3657	HN	ARG	254	-25.850	28.571	-3.708	0.00	H
ATOM	3658	CA	ARG	254	-28.000	28.720	-3.647	17.48	C
ATOM	3659	HA	ARG	254	-28.563	28.080	-3.019	0.00	H
ATOM	3660	CB	ARG	254	-27.736	30.049	-2.941	14.88	C
ATOM	3661	HB2	ARG	254	-27.165	29.876	-2.066	0.00	H
ATOM	3662	HB3	ARG	254	-27.201	30.693	-3.590	0.00	H
ATOM	3663	CG	ARG	254	-28.946	30.822	-2.498	17.07	C
ATOM	3664	HG2	ARG	254	-28.679	31.835	-2.339	0.00	H
ATOM	3665	HG3	ARG	254	-29.694	30.767	-3.246	0.00	H
ATOM	3666	CD	ARG	254	-29.520	30.271	-1.207	19.99	C
ATOM	3667	HD2	ARG	254	-28.731	29.945	-0.581	0.00	H
ATOM	3668	HD3	ARG	254	-30.071	31.029	-0.714	0.00	H
ATOM	3669	NE	ARG	254	-30.420	29.135	-1.397	18.20	N1+
ATOM	3670	HE	ARG	254	-30.100	28.199	-1.197	0.00	H
ATOM	3671	CZ	ARG	254	-31.671	29.247	-1.828	19.52	C
ATOM	3672	NH1	ARG	254	-32.180	30.443	-2.113	20.65	N

ATOM	3673	HH11	ARG	254	-33.131	30.522	-2.440	0.00	H
ATOM	3674	HH12	ARG	254	-31.615	31.271	-2.002	0.00	H
ATOM	3675	NH2	ARG	254	-32.416	28.162	-1.981	19.68	N
ATOM	3676	HH21	ARG	254	-33.367	28.245	-2.308	0.00	H
ATOM	3677	HH22	ARG	254	-32.033	27.253	-1.770	0.00	H
ATOM	3678	C	ARG	254	-28.807	28.953	-4.944	18.01	C
ATOM	3679	O	ARG	254	-29.986	28.607	-5.033	18.58	O
ATOM	3680	N	SER	255	-28.150	29.528	-5.947	17.36	N
ATOM	3681	HN	SER	255	-27.181	29.762	-5.789	0.00	H
ATOM	3682	CA	SER	255	-28.769	29.822	-7.230	15.85	C
ATOM	3683	HA	SER	255	-29.681	30.337	-7.072	0.00	H
ATOM	3684	CB	SER	255	-27.831	30.692	-8.059	14.50	C
ATOM	3685	HB2	SER	255	-26.882	30.227	-8.123	0.00	H
ATOM	3686	HB3	SER	255	-28.230	30.814	-9.032	0.00	H
ATOM	3687	OG	SER	255	-27.682	31.964	-7.459	14.64	O
ATOM	3688	HG	SER	255	-27.085	32.505	-7.994	0.00	H
ATOM	3689	C	SER	255	-29.155	28.586	-8.030	16.93	C
ATOM	3690	O	SER	255	-30.251	28.502	-8.576	16.90	O
ATOM	3691	N	LEU	256	-28.244	27.631	-8.117	17.49	N
ATOM	3692	HN	LEU	256	-27.350	27.759	-7.667	0.00	H
ATOM	3693	CA	LEU	256	-28.520	26.409	-8.850	17.00	C
ATOM	3694	HA	LEU	256	-28.774	26.647	-9.850	0.00	H
ATOM	3695	CB	LEU	256	-27.295	25.506	-8.850	15.32	C
ATOM	3696	HB2	LEU	256	-27.018	25.287	-7.852	0.00	H
ATOM	3697	HB3	LEU	256	-27.520	24.605	-9.360	0.00	H
ATOM	3698	CG	LEU	256	-26.057	26.089	-9.526	14.53	C
ATOM	3699	HG	LEU	256	-25.915	27.087	-9.202	0.00	H
ATOM	3700	CD1	LEU	256	-24.866	25.247	-9.142	12.79	C
ATOM	3701	HD11	LEU	256	-24.747	25.263	-8.090	0.00	H
ATOM	3702	HD12	LEU	256	-25.020	24.250	-9.464	0.00	H
ATOM	3703	HD13	LEU	256	-23.995	25.636	-9.602	0.00	H
ATOM	3704	CD2	LEU	256	-26.246	26.136	-11.026	8.28	C
ATOM	3705	HD21	LEU	256	-26.409	25.156	-11.392	0.00	H
ATOM	3706	HD22	LEU	256	-27.083	26.743	-11.258	0.00	H
ATOM	3707	HD23	LEU	256	-25.379	26.542	-11.478	0.00	H
ATOM	3708	C	LEU	256	-29.683	25.676	-8.212	19.19	C
ATOM	3709	O	LEU	256	-30.395	24.935	-8.890	22.16	O
ATOM	3710	N	THR	257	-29.875	25.877	-6.911	18.81	N
ATOM	3711	HN	THR	257	-29.253	26.499	-6.416	0.00	H
ATOM	3712	CA	THR	257	-30.958	25.219	-6.203	19.00	C
ATOM	3713	HA	THR	257	-30.926	24.178	-6.397	0.00	H
ATOM	3714	CB	THR	257	-30.843	25.441	-4.675	19.61	C
ATOM	3715	HB	THR	257	-30.750	26.477	-4.475	0.00	H
ATOM	3716	OG1	THR	257	-29.693	24.752	-4.171	19.75	O
ATOM	3717	HG1	THR	257	-29.625	24.893	-3.217	0.00	H
ATOM	3718	CG2	THR	257	-32.072	24.914	-3.960	17.63	C
ATOM	3719	HG21	THR	257	-32.931	25.421	-4.315	0.00	H
ATOM	3720	HG22	THR	257	-32.172	23.877	-4.148	0.00	H
ATOM	3721	HG23	THR	257	-31.971	25.076	-2.918	0.00	H
ATOM	3722	C	THR	257	-32.296	25.760	-6.690	21.08	C
ATOM	3723	O	THR	257	-33.163	25.000	-7.117	22.65	O
ATOM	3724	N	GLU	258	-32.461	27.077	-6.641	21.12	N
ATOM	3725	HN	GLU	258	-31.705	27.652	-6.300	0.00	H
ATOM	3726	CA	GLU	258	-33.712	27.696	-7.071	21.71	C
ATOM	3727	HA	GLU	258	-34.530	27.136	-6.698	0.00	H
ATOM	3728	CB	GLU	258	-33.796	29.131	-6.535	21.80	C
ATOM	3729	HB2	GLU	258	-32.949	29.678	-6.857	0.00	H
ATOM	3730	HB3	GLU	258	-34.675	29.594	-6.901	0.00	H
ATOM	3731	CG	GLU	258	-33.841	29.260	-5.010	21.94	C
ATOM	3732	HG2	GLU	258	-32.948	28.868	-4.596	0.00	H
ATOM	3733	HG3	GLU	258	-33.935	30.281	-4.745	0.00	H
ATOM	3734	CD	GLU	258	-35.006	28.513	-4.375	21.31	C
ATOM	3735	OE1	GLU	258	-36.100	28.509	-4.966	20.92	O1-
ATOM	3736	OE2	GLU	258	-34.833	27.946	-3.275	21.93	O
ATOM	3737	C	GLU	258	-33.924	27.729	-8.585	21.79	C
ATOM	3738	O	GLU	258	-35.043	27.573	-9.064	22.13	O
ATOM	3739	N	ARG	259	-32.842	27.920	-9.334	22.11	N
ATOM	3740	HN	ARG	259	-31.951	27.980	-8.865	0.00	H
ATOM	3741	CA	ARG	259	-32.912	28.043	-10.788	21.26	C
ATOM	3742	HA	ARG	259	-33.871	28.397	-11.067	0.00	H
ATOM	3743	CB	ARG	259	-31.836	29.035	-11.255	20.53	C
ATOM	3744	HB2	ARG	259	-30.878	28.660	-11.005	0.00	H
ATOM	3745	HB3	ARG	259	-31.903	29.160	-12.304	0.00	H
ATOM	3746	CG	ARG	259	-31.956	30.418	-10.628	19.76	C
ATOM	3747	HG2	ARG	259	-32.845	30.883	-10.966	0.00	H

ATOM	3748	HG3	ARG	259	-31.985	30.326	-9.573	0.00	H
ATOM	3749	CD	ARG	259	-30.779	31.297	-11.004	19.00	C
ATOM	3750	HD2	ARG	259	-30.899	32.254	-10.567	0.00	H
ATOM	3751	HD3	ARG	259	-29.883	30.858	-10.650	0.00	H
ATOM	3752	NE	ARG	259	-30.677	31.457	-12.450	20.99	N1+
ATOM	3753	HE	ARG	259	-31.323	30.975	-13.058	0.00	H
ATOM	3754	CZ	ARG	259	-29.772	32.212	-13.064	19.53	C
ATOM	3755	NH1	ARG	259	-28.877	32.892	-12.364	19.84	N
ATOM	3756	HH11	ARG	259	-28.193	33.463	-12.838	0.00	H
ATOM	3757	HH12	ARG	259	-28.879	32.839	-11.356	0.00	H
ATOM	3758	NH2	ARG	259	-29.755	32.277	-14.383	16.70	N
ATOM	3759	HH21	ARG	259	-29.069	32.850	-14.851	0.00	H
ATOM	3760	HH22	ARG	259	-30.428	31.754	-14.923	0.00	H
ATOM	3761	C	ARG	259	-32.822	26.766	-11.627	22.01	C
ATOM	3762	O	ARG	259	-33.202	26.767	-12.811	22.35	O
ATOM	3763	N	LEU	260	-32.337	25.677	-11.036	20.38	N
ATOM	3764	HN	LEU	260	-32.063	25.705	-10.065	0.00	H
ATOM	3765	CA	LEU	260	-32.202	24.440	-11.796	19.20	C
ATOM	3766	HA	LEU	260	-32.785	24.502	-12.678	0.00	H
ATOM	3767	CB	LEU	260	-30.734	24.226	-12.170	18.83	C
ATOM	3768	HB2	LEU	260	-30.379	25.069	-12.703	0.00	H
ATOM	3769	HB3	LEU	260	-30.160	24.098	-11.289	0.00	H
ATOM	3770	CG	LEU	260	-30.378	23.023	-13.051	18.68	C
ATOM	3771	HG	LEU	260	-30.811	22.147	-12.643	0.00	H
ATOM	3772	CD1	LEU	260	-30.915	23.249	-14.453	19.35	C
ATOM	3773	HD11	LEU	260	-31.967	23.360	-14.414	0.00	H
ATOM	3774	HD12	LEU	260	-30.482	24.126	-14.860	0.00	H
ATOM	3775	HD13	LEU	260	-30.670	22.419	-15.063	0.00	H
ATOM	3776	CD2	LEU	260	-28.874	22.837	-13.081	16.29	C
ATOM	3777	HD21	LEU	260	-28.418	23.708	-13.476	0.00	H
ATOM	3778	HD22	LEU	260	-28.520	22.668	-12.097	0.00	H
ATOM	3779	HD23	LEU	260	-28.633	22.005	-13.691	0.00	H
ATOM	3780	C	LEU	260	-32.713	23.219	-11.047	19.95	C
ATOM	3781	O	LEU	260	-33.562	22.475	-11.548	19.96	O
ATOM	3782	N	TYR	261	-32.204	23.030	-9.833	18.71	N
ATOM	3783	HN	TYR	261	-31.550	23.716	-9.488	0.00	H
ATOM	3784	CA	TYR	261	-32.559	21.885	-9.010	15.35	C
ATOM	3785	HA	TYR	261	-32.455	20.997	-9.577	0.00	H
ATOM	3786	CB	TYR	261	-31.637	21.831	-7.806	13.81	C
ATOM	3787	HB2	TYR	261	-31.790	22.690	-7.205	0.00	H
ATOM	3788	HB3	TYR	261	-31.847	20.961	-7.239	0.00	H
ATOM	3789	CG	TYR	261	-30.171	21.790	-8.173	12.93	C
ATOM	3790	CD1	TYR	261	-29.743	21.181	-9.346	13.36	C
ATOM	3791	HD1	TYR	261	-30.462	20.748	-10.021	0.00	H
ATOM	3792	CE1	TYR	261	-28.388	21.118	-9.672	13.47	C
ATOM	3793	HE1	TYR	261	-28.076	20.644	-10.588	0.00	H
ATOM	3794	CD2	TYR	261	-29.206	22.336	-7.331	12.97	C
ATOM	3795	HD2	TYR	261	-29.502	22.818	-6.414	0.00	H
ATOM	3796	CE2	TYR	261	-27.857	22.274	-7.648	11.39	C
ATOM	3797	HE2	TYR	261	-27.127	22.702	-6.982	0.00	H
ATOM	3798	CZ	TYR	261	-27.452	21.665	-8.816	12.37	C
ATOM	3799	OH	TYR	261	-26.101	21.591	-9.115	14.01	O
ATOM	3800	HH	TYR	261	-25.982	21.127	-9.955	0.00	H
ATOM	3801	C	TYR	261	-34.003	21.692	-8.564	15.77	C
ATOM	3802	O	TYR	261	-34.449	20.560	-8.539	17.32	O
ATOM	3803	N	ILE	262	-34.745	22.742	-8.208	16.34	N
ATOM	3804	HN	ILE	262	-34.360	23.675	-8.222	0.00	H
ATOM	3805	CA	ILE	262	-36.139	22.528	-7.792	18.02	C
ATOM	3806	HA	ILE	262	-36.212	21.617	-7.257	0.00	H
ATOM	3807	CB	ILE	262	-36.695	23.657	-6.869	18.41	C
ATOM	3808	HB	ILE	262	-37.733	23.511	-6.719	0.00	H
ATOM	3809	CG2	ILE	262	-36.001	23.642	-5.526	20.49	C
ATOM	3810	HG21	ILE	262	-36.162	22.707	-5.056	0.00	H
ATOM	3811	HG22	ILE	262	-34.962	23.794	-5.664	0.00	H
ATOM	3812	HG23	ILE	262	-36.393	24.415	-4.917	0.00	H
ATOM	3813	CG1	ILE	262	-36.556	25.003	-7.550	17.70	C
ATOM	3814	HG12	ILE	262	-35.542	25.163	-7.812	0.00	H
ATOM	3815	HG13	ILE	262	-37.153	25.020	-8.424	0.00	H
ATOM	3816	CD1	ILE	262	-36.984	26.147	-6.692	20.99	C
ATOM	3817	HD11	ILE	262	-38.002	26.028	-6.427	0.00	H
ATOM	3818	HD12	ILE	262	-36.391	26.171	-5.815	0.00	H
ATOM	3819	HD13	ILE	262	-36.862	27.054	-7.226	0.00	H
ATOM	3820	C	ILE	262	-37.075	22.426	-8.993	19.22	C
ATOM	3821	O	ILE	262	-38.282	22.198	-8.839	20.28	O
ATOM	3822	N	GLY	263	-36.529	22.602	-10.191	19.27	N

ATOM	3823	HN	GLY	263	-35.545	22.805	-10.283	0.00	H
ATOM	3824	CA	GLY	263	-37.362	22.500	-11.373	20.47	C
ATOM	3825	HA2	GLY	263	-37.208	21.559	-11.833	0.00	H
ATOM	3826	HA3	GLY	263	-38.380	22.595	-11.097	0.00	H
ATOM	3827	C	GLY	263	-37.034	23.582	-12.373	21.14	C
ATOM	3828	O	GLY	263	-36.065	24.309	-12.196	22.13	O
ATOM	3829	N	GLY	264	-37.847	23.695	-13.418	21.73	N
ATOM	3830	HN	GLY	264	-38.637	23.071	-13.492	0.00	H
ATOM	3831	CA	GLY	264	-37.614	24.694	-14.442	21.13	C
ATOM	3832	HA2	GLY	264	-38.072	25.605	-14.157	0.00	H
ATOM	3833	HA3	GLY	264	-36.572	24.843	-14.559	0.00	H
ATOM	3834	C	GLY	264	-38.206	24.216	-15.744	21.31	C
ATOM	3835	O	GLY	264	-38.718	23.102	-15.801	23.09	O
ATOM	3836	N	PRO	265	-38.137	25.016	-16.816	21.16	N
ATOM	3837	CD	PRO	265	-37.473	26.325	-16.873	20.26	C
ATOM	3838	HD2	PRO	265	-38.092	27.055	-16.419	0.00	H
ATOM	3839	HD3	PRO	265	-36.549	26.275	-16.358	0.00	H
ATOM	3840	CA	PRO	265	-38.681	24.662	-18.136	21.39	C
ATOM	3841	HA	PRO	265	-39.700	24.393	-18.037	0.00	H
ATOM	3842	CB	PRO	265	-38.559	25.965	-18.909	18.74	C
ATOM	3843	HB2	PRO	265	-38.504	25.757	-19.946	0.00	H
ATOM	3844	HB3	PRO	265	-39.406	26.571	-18.715	0.00	H
ATOM	3845	CG	PRO	265	-37.312	26.527	-18.367	20.47	C
ATOM	3846	HG2	PRO	265	-36.485	25.998	-18.764	0.00	H
ATOM	3847	HG3	PRO	265	-37.239	27.549	-18.635	0.00	H
ATOM	3848	C	PRO	265	-38.008	23.491	-18.864	21.74	C
ATOM	3849	O	PRO	265	-36.791	23.342	-18.840	21.67	O
ATOM	3850	N	LEU	266	-38.827	22.675	-19.524	23.36	N
ATOM	3851	HN	LEU	266	-39.813	22.889	-19.494	0.00	H
ATOM	3852	CA	LEU	266	-38.354	21.510	-20.270	23.52	C
ATOM	3853	HA	LEU	266	-37.354	21.297	-19.994	0.00	H
ATOM	3854	CB	LEU	266	-39.246	20.301	-19.945	23.76	C
ATOM	3855	HB2	LEU	266	-40.245	20.515	-20.223	0.00	H
ATOM	3856	HB3	LEU	266	-38.903	19.455	-20.482	0.00	H
ATOM	3857	CG	LEU	266	-39.316	19.854	-18.480	23.68	C
ATOM	3858	HG	LEU	266	-39.389	20.705	-17.854	0.00	H
ATOM	3859	CD1	LEU	266	-40.532	18.974	-18.279	24.97	C
ATOM	3860	HD11	LEU	266	-41.406	19.519	-18.524	0.00	H
ATOM	3861	HD12	LEU	266	-40.459	18.123	-18.905	0.00	H
ATOM	3862	HD13	LEU	266	-40.581	18.665	-17.267	0.00	H
ATOM	3863	CD2	LEU	266	-38.047	19.123	-18.089	21.73	C
ATOM	3864	HD21	LEU	266	-37.927	18.270	-18.704	0.00	H
ATOM	3865	HD22	LEU	266	-37.216	19.767	-18.213	0.00	H
ATOM	3866	HD23	LEU	266	-38.111	18.821	-17.076	0.00	H
ATOM	3867	C	LEU	266	-38.365	21.774	-21.782	22.57	C
ATOM	3868	O	LEU	266	-39.391	22.117	-22.347	21.55	O
ATOM	3869	N	THR	267	-37.221	21.611	-22.435	23.37	N
ATOM	3870	HN	THR	267	-36.400	21.327	-21.922	0.00	H
ATOM	3871	CA	THR	267	-37.140	21.837	-23.875	24.51	C
ATOM	3872	HA	THR	267	-38.088	22.137	-24.239	0.00	H
ATOM	3873	CB	THR	267	-36.112	22.940	-24.215	22.79	C
ATOM	3874	HB	THR	267	-35.147	22.630	-23.908	0.00	H
ATOM	3875	OG1	THR	267	-36.462	24.150	-23.531	23.41	O
ATOM	3876	HG1	THR	267	-35.818	24.839	-23.745	0.00	H
ATOM	3877	CG2	THR	267	-36.098	23.200	-25.707	19.01	C
ATOM	3878	HG21	THR	267	-35.834	22.311	-26.218	0.00	H
ATOM	3879	HG22	THR	267	-37.060	23.514	-26.020	0.00	H
ATOM	3880	HG23	THR	267	-35.391	23.957	-25.927	0.00	H
ATOM	3881	C	THR	267	-36.755	20.584	-24.660	25.86	C
ATOM	3882	O	THR	267	-35.766	19.922	-24.329	25.31	O
ATOM	3883	N	ASN	268	-37.535	20.263	-25.696	26.77	N
ATOM	3884	HN	ASN	268	-38.342	20.831	-25.906	0.00	H
ATOM	3885	CA	ASN	268	-37.227	19.102	-26.520	28.74	C
ATOM	3886	HA	ASN	268	-36.939	18.294	-25.898	0.00	H
ATOM	3887	CB	ASN	268	-38.446	18.654	-27.364	28.44	C
ATOM	3888	HB2	ASN	268	-38.192	17.788	-27.919	0.00	H
ATOM	3889	HB3	ASN	268	-39.259	18.436	-26.722	0.00	H
ATOM	3890	CG	ASN	268	-38.925	19.718	-28.366	30.72	C
ATOM	3891	OD1	ASN	268	-38.165	20.591	-28.805	27.75	O
ATOM	3892	ND2	ASN	268	-40.197	19.622	-28.748	28.89	N
ATOM	3893	HD21	ASN	268	-40.785	18.896	-28.367	0.00	H
ATOM	3894	HD22	ASN	268	-40.573	20.275	-29.419	0.00	H
ATOM	3895	C	ASN	268	-36.036	19.438	-27.422	29.89	C
ATOM	3896	O	ASN	268	-35.627	20.592	-27.524	28.99	O
ATOM	3897	N	SER	269	-35.463	18.430	-28.060	32.11	N

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ATOM   3898  HN  SER   269     -35.820  17.495 -27.933        0.00           H
ATOM   3899  CA  SER   269     -34.328  18.662 -28.938       33.36           C
ATOM   3900  HA  SER   269     -33.521  19.053 -28.375        0.00           H
ATOM   3901  CB  SER   269     -33.895  17.347 -29.593       34.42           C
ATOM   3902  HB2 SER   269     -33.089  17.531 -30.254        0.00           H
ATOM   3903  HB3 SER   269     -33.589  16.664 -28.844        0.00           H
ATOM   3904  OG  SER   269     -34.960  16.758 -30.333       36.37           O
ATOM   3905  HG  SER   269     -34.656  15.932 -30.733        0.00           H
ATOM   3906  C   SER   269     -34.625  19.707 -30.015       34.36           C
ATOM   3907  O   SER   269     -33.699  20.308 -30.551       35.83           O
ATOM   3908  N   LYS   270     -35.901  19.930 -30.335       34.96           N
ATOM   3909  HN  LYS   270     -36.619  19.403 -29.861        0.00           H
ATOM   3910  CA  LYS   270     -36.271  20.922 -31.357       35.75           C
ATOM   3911  HA  LYS   270     -35.586  20.871 -32.163        0.00           H
ATOM   3912  CB  LYS   270     -37.681  20.662 -31.897       38.44           C
ATOM   3913  HB2 LYS   270     -38.309  20.342 -31.106        0.00           H
ATOM   3914  HB3 LYS   270     -38.068  21.554 -32.317        0.00           H
ATOM   3915  CG  LYS   270     -37.828  19.610 -32.979       41.32           C
ATOM   3916  HG2 LYS   270     -37.102  19.775 -33.732        0.00           H
ATOM   3917  HG3 LYS   270     -37.688  18.648 -32.558        0.00           H
ATOM   3918  CD  LYS   270     -39.237  19.730 -33.567       45.92           C
ATOM   3919  HD2 LYS   270     -39.912  20.031 -32.808        0.00           H
ATOM   3920  HD3 LYS   270     -39.235  20.450 -34.344        0.00           H
ATOM   3921  CE  LYS   270     -39.757  18.412 -34.155       49.48           C
ATOM   3922  HE2 LYS   270     -39.288  18.232 -35.088        0.00           H
ATOM   3923  HE3 LYS   270     -39.536  17.618 -33.490        0.00           H
ATOM   3924  NZ  LYS   270     -41.250  18.435 -34.378       49.94           N1+
ATOM   3925  HZ1 LYS   270     -41.719  18.592 -33.499        0.00           H
ATOM   3926  HZ2 LYS   270     -41.483  19.178 -35.020        0.00           H
ATOM   3927  HZ3 LYS   270     -41.546  17.551 -34.764        0.00           H
ATOM   3928  C   LYS   270     -36.239  22.381 -30.882       34.49           C
ATOM   3929  O   LYS   270     -36.295  23.304 -31.692       34.31           O
ATOM   3930  N   GLY   271     -36.173  22.596 -29.577       33.27           N
ATOM   3931  HN  GLY   271     -36.125  21.821 -28.932        0.00           H
ATOM   3932  CA  GLY   271     -36.170  23.955 -29.077       30.61           C
ATOM   3933  HA2 GLY   271     -35.564  24.011 -28.210        0.00           H
ATOM   3934  HA3 GLY   271     -35.784  24.604 -29.820        0.00           H
ATOM   3935  C   GLY   271     -37.588  24.369 -28.731       29.80           C
ATOM   3936  O   GLY   271     -37.901  25.561 -28.640       29.25           O
ATOM   3937  N   GLN   272     -38.453  23.374 -28.550       28.56           N
ATOM   3938  HN  GLN   272     -38.124  22.426 -28.660        0.00           H
ATOM   3939  CA  GLN   272     -39.843  23.626 -28.202       26.99           C
ATOM   3940  HA  GLN   272     -40.068  24.648 -28.366        0.00           H
ATOM   3941  CB  GLN   272     -40.776  22.773 -29.055       25.18           C
ATOM   3942  HB2 GLN   272     -40.563  21.748 -28.894        0.00           H
ATOM   3943  HB3 GLN   272     -41.781  22.971 -28.785        0.00           H
ATOM   3944  CG  GLN   272     -40.653  23.027 -30.534       26.26           C
ATOM   3945  HG2 GLN   272     -40.938  24.025 -30.746        0.00           H
ATOM   3946  HG3 GLN   272     -39.650  22.874 -30.836        0.00           H
ATOM   3947  CD  GLN   272     -41.534  22.105 -31.352       27.88           C
ATOM   3948  OE1 GLN   272     -41.353  20.887 -31.355       27.17           O
ATOM   3949  NE2 GLN   272     -42.501  22.685 -32.050       29.85           N
ATOM   3950 HE21 GLN   272     -42.614  23.687 -32.019        0.00           H
ATOM   3951 HE22 GLN   272     -43.124  22.124 -32.612        0.00           H
ATOM   3952  C   GLN   272     -40.092  23.337 -26.728       26.39           C
ATOM   3953  O   GLN   272     -39.530  22.408 -26.143       25.19           O
ATOM   3954  N   ASN   273     -40.946  24.156 -26.144       25.04           N
ATOM   3955  HN  ASN   273     -41.353  24.883 -26.714        0.00           H
ATOM   3956  CA  ASN   273     -41.305  24.045 -24.751       25.74           C
ATOM   3957  HA  ASN   273     -40.434  23.869 -24.175        0.00           H
ATOM   3958  CB  ASN   273     -41.960  25.345 -24.316       24.98           C
ATOM   3959  HB2 ASN   273     -41.303  26.153 -24.509        0.00           H
ATOM   3960  HB3 ASN   273     -42.860  25.485 -24.857        0.00           H
ATOM   3961  CG  ASN   273     -42.293  25.363 -22.861       26.05           C
ATOM   3962  OD1 ASN   273     -42.907  26.301 -22.388       29.10           O
ATOM   3963  ND2 ASN   273     -41.889  24.328 -22.132       26.07           N
ATOM   3964 HD21 ASN   273     -41.382  23.572 -22.567        0.00           H
ATOM   3965 HD22 ASN   273     -42.089  24.298 -21.143        0.00           H
ATOM   3966  C   ASN   273     -42.249  22.880 -24.499       26.42           C
ATOM   3967  O   ASN   273     -43.406  22.907 -24.898       30.01           O
ATOM   3968  N   CYS   274     -41.760  21.861 -23.820       26.33           N
ATOM   3969  HN  CYS   274     -40.803  21.895 -23.503        0.00           H
ATOM   3970  CA  CYS   274     -42.576  20.706 -23.528       27.22           C
ATOM   3971  HA  CYS   274     -43.258  20.545 -24.322        0.00           H
ATOM   3972  CB  CYS   274     -41.699  19.472 -23.397       28.13           C
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ATOM	3973	HB2	CYS	274	-40.928	19.660	-22.696	0.00	H
ATOM	3974	HB3	CYS	274	-42.286	18.655	-23.066	0.00	H
ATOM	3975	SG	CYS	274	-40.959	19.036	-24.928	36.39	S
ATOM	3976	HG	CYS	274	-40.249	18.019	-24.773	0.00	H
ATOM	3977	C	CYS	274	-43.371	20.870	-22.260	26.82	C
ATOM	3978	O	CYS	274	-44.445	20.288	-22.121	29.77	O
ATOM	3979	N	GLY	275	-42.836	21.640	-21.325	25.99	N
ATOM	3980	HN	GLY	275	-41.949	22.093	-21.489	0.00	H
ATOM	3981	CA	GLY	275	-43.523	21.831	-20.071	25.48	C
ATOM	3982	HA2	GLY	275	-44.268	22.575	-20.186	0.00	H
ATOM	3983	HA3	GLY	275	-43.976	20.921	-19.774	0.00	H
ATOM	3984	C	GLY	275	-42.603	22.271	-18.959	26.18	C
ATOM	3985	O	GLY	275	-41.540	22.843	-19.203	26.76	O
ATOM	3986	N	TYR	276	-43.004	21.987	-17.727	25.21	N
ATOM	3987	HN	TYR	276	-43.861	21.471	-17.597	0.00	H
ATOM	3988	CA	TYR	276	-42.230	22.407	-16.577	23.92	C
ATOM	3989	HA	TYR	276	-41.325	22.849	-16.903	0.00	H
ATOM	3990	CB	TYR	276	-43.037	23.422	-15.777	23.19	C
ATOM	3991	HB2	TYR	276	-43.631	23.999	-16.437	0.00	H
ATOM	3992	HB3	TYR	276	-43.663	22.913	-15.091	0.00	H
ATOM	3993	CG	TYR	276	-42.188	24.374	-14.988	24.73	C
ATOM	3994	CD1	TYR	276	-41.657	25.519	-15.587	24.41	C
ATOM	3995	HD1	TYR	276	-41.896	25.751	-16.611	0.00	H
ATOM	3996	CE1	TYR	276	-40.819	26.376	-14.888	23.61	C
ATOM	3997	HE1	TYR	276	-40.416	27.249	-15.373	0.00	H
ATOM	3998	CD2	TYR	276	-41.866	24.109	-13.658	24.51	C
ATOM	3999	HD2	TYR	276	-42.265	23.235	-13.171	0.00	H
ATOM	4000	CE2	TYR	276	-41.032	24.961	-12.947	26.04	C
ATOM	4001	HE2	TYR	276	-40.791	24.745	-11.920	0.00	H
ATOM	4002	CZ	TYR	276	-40.511	26.093	-13.568	25.93	C
ATOM	4003	OH	TYR	276	-39.691	26.939	-12.859	25.73	O
ATOM	4004	HH	TYR	276	-39.420	27.675	-13.425	0.00	H
ATOM	4005	C	TYR	276	-41.889	21.227	-15.688	24.32	C
ATOM	4006	O	TYR	276	-42.556	20.199	-15.744	26.40	O
ATOM	4007	N	ARG	277	-40.860	21.387	-14.860	22.79	N
ATOM	4008	HN	ARG	277	-40.370	22.269	-14.879	0.00	H
ATOM	4009	CA	ARG	277	-40.434	20.337	-13.945	22.27	C
ATOM	4010	HA	ARG	277	-41.120	19.531	-13.988	0.00	H
ATOM	4011	CB	ARG	277	-39.039	19.827	-14.330	21.28	C
ATOM	4012	HB2	ARG	277	-39.091	19.325	-15.261	0.00	H
ATOM	4013	HB3	ARG	277	-38.373	20.646	-14.408	0.00	H
ATOM	4014	CG	ARG	277	-38.419	18.847	-13.333	23.15	C
ATOM	4015	HG2	ARG	277	-38.391	19.291	-12.372	0.00	H
ATOM	4016	HG3	ARG	277	-39.002	17.964	-13.297	0.00	H
ATOM	4017	CD	ARG	277	-36.992	18.466	-13.729	22.81	C
ATOM	4018	HD2	ARG	277	-36.539	17.924	-12.940	0.00	H
ATOM	4019	HD3	ARG	277	-37.016	17.865	-14.601	0.00	H
ATOM	4020	NE	ARG	277	-36.173	19.650	-14.006	23.96	N1+
ATOM	4021	HE	ARG	277	-36.146	20.038	-14.937	0.00	H
ATOM	4022	CZ	ARG	277	-35.425	20.298	-13.112	20.38	C
ATOM	4023	NH1	ARG	277	-35.356	19.899	-11.849	15.24	N
ATOM	4024	HH11	ARG	277	-34.783	20.405	-11.191	0.00	H
ATOM	4025	HH12	ARG	277	-35.876	19.089	-11.547	0.00	H
ATOM	4026	NH2	ARG	277	-34.754	21.367	-13.495	19.95	N
ATOM	4027	HH21	ARG	277	-34.183	21.869	-12.831	0.00	H
ATOM	4028	HH22	ARG	277	-34.811	21.683	-14.452	0.00	H
ATOM	4029	C	ARG	277	-40.410	20.845	-12.506	23.13	C
ATOM	4030	O	ARG	277	-40.024	21.988	-12.250	21.86	O
ATOM	4031	N	ARG	278	-40.824	19.993	-11.570	23.45	N
ATOM	4032	HN	ARG	278	-41.140	19.078	-11.853	0.00	H
ATOM	4033	CA	ARG	278	-40.826	20.360	-10.163	24.13	C
ATOM	4034	HA	ARG	278	-40.199	21.201	-10.017	0.00	H
ATOM	4035	CB	ARG	278	-42.235	20.709	-9.703	23.92	C
ATOM	4036	HB2	ARG	278	-42.828	19.832	-9.687	0.00	H
ATOM	4037	HB3	ARG	278	-42.196	21.126	-8.730	0.00	H
ATOM	4038	CG	ARG	278	-42.902	21.710	-10.616	24.43	C
ATOM	4039	HG2	ARG	278	-42.196	22.440	-10.916	0.00	H
ATOM	4040	HG3	ARG	278	-43.279	21.212	-11.471	0.00	H
ATOM	4041	CD	ARG	278	-44.054	22.428	-9.956	21.15	C
ATOM	4042	HD2	ARG	278	-44.751	21.718	-9.592	0.00	H
ATOM	4043	HD3	ARG	278	-43.691	23.011	-9.150	0.00	H
ATOM	4044	NE	ARG	278	-44.700	23.290	-10.930	22.71	N1+
ATOM	4045	HE	ARG	278	-44.633	24.293	-10.839	0.00	H
ATOM	4046	CZ	ARG	278	-45.396	22.838	-11.967	22.25	C
ATOM	4047	NH1	ARG	278	-45.542	21.528	-12.156	22.00	N

ATOM	4048	HH11	ARG	278	-46.071	21.188	-12.945	0.00	H
ATOM	4049	HH12	ARG	278	-45.123	20.875	-11.510	0.00	H
ATOM	4050	NH2	ARG	278	-45.927	23.691	-12.828	20.10	N
ATOM	4051	HH21	ARG	278	-46.456	23.349	-13.616	0.00	H
ATOM	4052	HH22	ARG	278	-45.803	24.684	-12.696	0.00	H
ATOM	4053	C	ARG	278	-40.273	19.233	-9.311	25.29	C
ATOM	4054	O	ARG	278	-40.562	19.143	-8.115	26.28	O
ATOM	4055	N	CYS	279	-39.473	18.376	-9.936	24.56	N
ATOM	4056	HN	CYS	279	-39.291	18.521	-10.918	0.00	H
ATOM	4057	CA	CYS	279	-38.863	17.249	-9.240	24.76	C
ATOM	4058	HA	CYS	279	-38.889	17.423	-8.196	0.00	H
ATOM	4059	CB	CYS	279	-39.657	15.963	-9.518	25.76	C
ATOM	4060	HB2	CYS	279	-39.248	15.166	-8.952	0.00	H
ATOM	4061	HB3	CYS	279	-40.670	16.107	-9.244	0.00	H
ATOM	4062	SG	CYS	279	-39.654	15.431	-11.250	21.50	S
ATOM	4063	HG	CYS	279	-40.324	14.382	-11.365	0.00	H
ATOM	4064	C	CYS	279	-37.403	17.059	-9.670	24.32	C
ATOM	4065	O	CYS	279	-36.840	17.886	-10.382	24.59	O
ATOM	4066	N	ARG	280	-36.800	15.955	-9.248	22.33	N
ATOM	4067	HN	ARG	280	-37.322	15.302	-8.683	0.00	H
ATOM	4068	CA	ARG	280	-35.417	15.678	-9.584	21.95	C
ATOM	4069	HA	ARG	280	-34.801	16.455	-9.212	0.00	H
ATOM	4070	CB	ARG	280	-34.988	14.349	-8.959	21.54	C
ATOM	4071	HB2	ARG	280	-35.123	14.393	-7.910	0.00	H
ATOM	4072	HB3	ARG	280	-35.577	13.565	-9.359	0.00	H
ATOM	4073	CG	ARG	280	-33.530	13.986	-9.208	21.68	C
ATOM	4074	HG2	ARG	280	-33.374	12.966	-8.969	0.00	H
ATOM	4075	HG3	ARG	280	-33.295	14.149	-10.227	0.00	H
ATOM	4076	CD	ARG	280	-32.606	14.831	-8.355	21.63	C
ATOM	4077	HD2	ARG	280	-31.618	14.763	-8.731	0.00	H
ATOM	4078	HD3	ARG	280	-32.925	15.840	-8.382	0.00	H
ATOM	4079	NE	ARG	280	-32.593	14.395	-6.957	23.05	N1+
ATOM	4080	HE	ARG	280	-32.840	13.445	-6.722	0.00	H
ATOM	4081	CZ	ARG	280	-32.270	15.179	-5.930	23.57	C
ATOM	4082	NH1	ARG	280	-31.941	16.447	-6.152	21.43	N
ATOM	4083	HH11	ARG	280	-31.695	17.047	-5.379	0.00	H
ATOM	4084	HH12	ARG	280	-31.937	16.810	-7.094	0.00	H
ATOM	4085	NH2	ARG	280	-32.269	14.701	-4.686	19.94	N
ATOM	4086	HH21	ARG	280	-32.023	15.303	-3.914	0.00	H
ATOM	4087	HH22	ARG	280	-32.514	13.737	-4.516	0.00	H
ATOM	4088	C	ARG	280	-35.131	15.639	-11.082	22.64	C
ATOM	4089	O	ARG	280	-35.847	15.004	-11.851	23.36	O
ATOM	4090	N	ALA	281	-34.077	16.338	-11.489	22.89	N
ATOM	4091	HN	ALA	281	-33.576	16.882	-10.803	0.00	H
ATOM	4092	CA	ALA	281	-33.638	16.336	-12.880	23.18	C
ATOM	4093	HA	ALA	281	-34.465	16.135	-13.511	0.00	H
ATOM	4094	CB	ALA	281	-33.051	17.680	-13.253	22.22	C
ATOM	4095	HB1	ALA	281	-33.784	18.433	-13.125	0.00	H
ATOM	4096	HB2	ALA	281	-32.220	17.887	-12.630	0.00	H
ATOM	4097	HB3	ALA	281	-32.738	17.660	-14.265	0.00	H
ATOM	4098	C	ALA	281	-32.551	15.258	-12.917	24.11	C
ATOM	4099	O	ALA	281	-31.557	15.342	-12.199	24.21	O
ATOM	4100	N	SER	282	-32.749	14.237	-13.736	24.86	N
ATOM	4101	HN	SER	282	-33.584	14.234	-14.302	0.00	H
ATOM	4102	CA	SER	282	-31.798	13.135	-13.833	24.84	C
ATOM	4103	HA	SER	282	-31.678	12.688	-12.881	0.00	H
ATOM	4104	CB	SER	282	-32.322	12.099	-14.819	24.79	C
ATOM	4105	HB2	SER	282	-31.604	11.329	-14.937	0.00	H
ATOM	4106	HB3	SER	282	-33.225	11.686	-14.451	0.00	H
ATOM	4107	OG	SER	282	-32.569	12.700	-16.083	28.64	O
ATOM	4108	HG	SER	282	-32.901	12.032	-16.698	0.00	H
ATOM	4109	C	SER	282	-30.390	13.530	-14.256	25.10	C
ATOM	4110	O	SER	282	-29.424	12.852	-13.899	25.61	O
ATOM	4111	N	GLY	283	-30.276	14.623	-15.007	24.69	N
ATOM	4112	HN	GLY	283	-31.100	15.160	-15.233	0.00	H
ATOM	4113	CA	GLY	283	-28.979	15.044	-15.499	24.86	C
ATOM	4114	HA2	GLY	283	-28.296	14.238	-15.428	0.00	H
ATOM	4115	HA3	GLY	283	-29.066	15.345	-16.511	0.00	H
ATOM	4116	C	GLY	283	-28.214	16.197	-14.865	26.23	C
ATOM	4117	O	GLY	283	-27.555	16.960	-15.583	27.70	O
ATOM	4118	N	VAL	284	-28.291	16.353	-13.547	24.35	N
ATOM	4119	HN	VAL	284	-28.879	15.738	-13.004	0.00	H
ATOM	4120	CA	VAL	284	-27.531	17.407	-12.886	24.40	C
ATOM	4121	HA	VAL	284	-27.057	18.011	-13.615	0.00	H
ATOM	4122	CB	VAL	284	-28.419	18.328	-12.012	25.38	C

ATOM	4123	HB	VAL	284	-27.807	19.014	-11.487	0.00	H
ATOM	4124	CG1	VAL	284	-29.321	19.151	-12.911	25.14	C
ATOM	4125	HG11	VAL	284	-28.728	19.741	-13.561	0.00	H
ATOM	4126	HG12	VAL	284	-29.935	18.504	-13.483	0.00	H
ATOM	4127	HG13	VAL	284	-29.930	19.782	-12.318	0.00	H
ATOM	4128	CG2	VAL	284	-29.225	17.508	-10.995	23.47	C
ATOM	4129	HG21	VAL	284	-29.848	16.822	-11.509	0.00	H
ATOM	4130	HG22	VAL	284	-28.561	16.977	-10.364	0.00	H
ATOM	4131	HG23	VAL	284	-29.823	18.159	-10.411	0.00	H
ATOM	4132	C	VAL	284	-26.487	16.713	-12.015	23.84	C
ATOM	4133	O	VAL	284	-26.622	15.529	-11.712	25.48	O
ATOM	4134	N	LEU	285	-25.452	17.435	-11.608	21.36	N
ATOM	4135	HN	LEU	285	-25.387	18.412	-11.852	0.00	H
ATOM	4136	CA	LEU	285	-24.415	16.818	-10.812	21.92	C
ATOM	4137	HA	LEU	285	-24.080	15.935	-11.292	0.00	H
ATOM	4138	CB	LEU	285	-23.245	17.776	-10.652	19.45	C
ATOM	4139	HB2	LEU	285	-23.040	18.242	-11.581	0.00	H
ATOM	4140	HB3	LEU	285	-23.489	18.514	-9.933	0.00	H
ATOM	4141	CG	LEU	285	-21.977	17.066	-10.189	18.93	C
ATOM	4142	HG	LEU	285	-22.017	16.920	-9.141	0.00	H
ATOM	4143	CD1	LEU	285	-21.875	15.724	-10.886	17.00	C
ATOM	4144	HD11	LEU	285	-22.721	15.135	-10.643	0.00	H
ATOM	4145	HD12	LEU	285	-21.837	15.872	-11.934	0.00	H
ATOM	4146	HD13	LEU	285	-20.996	15.227	-10.568	0.00	H
ATOM	4147	CD2	LEU	285	-20.764	17.925	-10.491	19.18	C
ATOM	4148	HD21	LEU	285	-20.706	18.099	-11.534	0.00	H
ATOM	4149	HD22	LEU	285	-20.851	18.850	-9.983	0.00	H
ATOM	4150	HD23	LEU	285	-19.888	17.426	-10.167	0.00	H
ATOM	4151	C	LEU	285	-24.876	16.349	-9.438	24.11	C
ATOM	4152	O	LEU	285	-24.231	15.506	-8.806	25.97	O
ATOM	4153	N	THR	286	-26.003	16.873	-8.976	23.58	N
ATOM	4154	HN	THR	286	-26.530	17.523	-9.540	0.00	H
ATOM	4155	CA	THR	286	-26.478	16.508	-7.655	23.12	C
ATOM	4156	HA	THR	286	-25.665	16.164	-7.070	0.00	H
ATOM	4157	CB	THR	286	-27.116	17.733	-6.966	23.82	C
ATOM	4158	HB	THR	286	-27.508	17.444	-6.026	0.00	H
ATOM	4159	OG1	THR	286	-28.174	18.256	-7.783	25.37	O
ATOM	4160	HG1	THR	286	-28.569	19.023	-7.346	0.00	H
ATOM	4161	CG2	THR	286	-26.073	18.811	-6.762	24.45	C
ATOM	4162	HG21	THR	286	-25.292	18.436	-6.153	0.00	H
ATOM	4163	HG22	THR	286	-25.680	19.104	-7.701	0.00	H
ATOM	4164	HG23	THR	286	-26.518	19.648	-6.289	0.00	H
ATOM	4165	C	THR	286	-27.446	15.335	-7.616	22.55	C
ATOM	4166	O	THR	286	-27.835	14.892	-6.534	20.46	O
ATOM	4167	N	THR	287	-27.824	14.824	-8.785	21.19	N
ATOM	4168	HN	THR	287	-27.457	15.214	-9.640	0.00	H
ATOM	4169	CA	THR	287	-28.762	13.708	-8.837	21.66	C
ATOM	4170	HA	THR	287	-29.705	14.022	-8.471	0.00	H
ATOM	4171	CB	THR	287	-28.948	13.188	-10.280	20.59	C
ATOM	4172	HB	THR	287	-28.009	12.897	-10.674	0.00	H
ATOM	4173	OG1	THR	287	-29.530	14.213	-11.088	24.14	O
ATOM	4174	HG1	THR	287	-29.645	13.885	-11.990	0.00	H
ATOM	4175	CG2	THR	287	-29.869	12.008	-10.299	18.91	C
ATOM	4176	HG21	THR	287	-29.461	11.232	-9.704	0.00	H
ATOM	4177	HG22	THR	287	-30.813	12.291	-9.911	0.00	H
ATOM	4178	HG23	THR	287	-29.984	11.666	-11.295	0.00	H
ATOM	4179	C	THR	287	-28.364	12.532	-7.936	21.38	C
ATOM	4180	O	THR	287	-29.161	12.075	-7.114	20.47	O
ATOM	4181	N	SER	288	-27.138	12.044	-8.072	21.41	N
ATOM	4182	HN	SER	288	-26.495	12.449	-8.736	0.00	H
ATOM	4183	CA	SER	288	-26.723	10.916	-7.255	22.59	C
ATOM	4184	HA	SER	288	-27.463	10.160	-7.295	0.00	H
ATOM	4185	CB	SER	288	-25.408	10.344	-7.759	22.61	C
ATOM	4186	HB2	SER	288	-25.448	10.242	-8.812	0.00	H
ATOM	4187	HB3	SER	288	-24.616	10.997	-7.498	0.00	H
ATOM	4188	OG	SER	288	-25.192	9.078	-7.169	26.26	O
ATOM	4189	HG	SER	288	-24.356	8.712	-7.488	0.00	H
ATOM	4190	C	SER	288	-26.590	11.256	-5.776	23.28	C
ATOM	4191	O	SER	288	-27.174	10.588	-4.920	24.12	O
ATOM	4192	N	CYS	289	-25.828	12.293	-5.470	23.35	N
ATOM	4193	HN	CYS	289	-25.375	12.817	-6.204	0.00	H
ATOM	4194	CA	CYS	289	-25.642	12.679	-4.080	25.42	C
ATOM	4195	HA	CYS	289	-25.186	11.883	-3.551	0.00	H
ATOM	4196	CB	CYS	289	-24.689	13.861	-4.001	26.09	C
ATOM	4197	HB2	CYS	289	-23.735	13.570	-4.358	0.00	H

ATOM	4198	HB3	CYS	289	-25.061	14.655	-4.595	0.00	H
ATOM	4199	SG	CYS	289	-24.505	14.448	-2.341	30.73	S
ATOM	4200	HG	CYS	289	-23.715	15.417	-2.327	0.00	H
ATOM	4201	C	CYS	289	-26.949	13.021	-3.353	25.77	C
ATOM	4202	O	CYS	289	-27.177	12.583	-2.223	25.68	O
ATOM	4203	N	GLY	290	-27.797	13.810	-4.009	27.03	N
ATOM	4204	HN	GLY	290	-27.538	14.135	-4.928	0.00	H
ATOM	4205	CA	GLY	290	-29.069	14.204	-3.431	26.57	C
ATOM	4206	HA2	GLY	290	-28.906	14.630	-2.475	0.00	H
ATOM	4207	HA3	GLY	290	-29.537	14.916	-4.060	0.00	H
ATOM	4208	C	GLY	290	-30.032	13.047	-3.256	27.92	C
ATOM	4209	O	GLY	290	-30.747	12.972	-2.252	27.98	O
ATOM	4210	N	ASN	291	-30.069	12.141	-4.229	28.41	N
ATOM	4211	HN	ASN	291	-29.480	12.247	-5.041	0.00	H
ATOM	4212	CA	ASN	291	-30.961	10.995	-4.121	27.97	C
ATOM	4213	HA	ASN	291	-31.937	11.329	-3.881	0.00	H
ATOM	4214	CB	ASN	291	-31.016	10.223	-5.437	28.19	C
ATOM	4215	HB2	ASN	291	-30.032	10.075	-5.801	0.00	H
ATOM	4216	HB3	ASN	291	-31.478	9.284	-5.276	0.00	H
ATOM	4217	CG	ASN	291	-31.804	10.956	-6.505	30.30	C
ATOM	4218	OD1	ASN	291	-32.311	12.049	-6.269	31.35	O
ATOM	4219	ND2	ASN	291	-31.913	10.358	-7.683	29.72	N
ATOM	4220	HD21	ASN	291	-31.480	9.459	-7.834	0.00	H
ATOM	4221	HD22	ASN	291	-32.429	10.802	-8.428	0.00	H
ATOM	4222	C	ASN	291	-30.464	10.106	-3.001	27.26	C
ATOM	4223	O	ASN	291	-31.243	9.653	-2.167	27.38	O
ATOM	4224	N	THR	292	-29.162	9.868	-2.965	25.83	N
ATOM	4225	HN	THR	292	-28.551	10.262	-3.664	0.00	H
ATOM	4226	CA	THR	292	-28.615	9.034	-1.911	26.01	C
ATOM	4227	HA	THR	292	-29.059	8.074	-1.954	0.00	H
ATOM	4228	CB	THR	292	-27.102	8.872	-2.050	25.27	C
ATOM	4229	HB	THR	292	-26.642	9.826	-2.039	0.00	H
ATOM	4230	OG1	THR	292	-26.815	8.212	-3.286	26.62	O
ATOM	4231	HG1	THR	292	-25.858	8.106	-3.380	0.00	H
ATOM	4232	CG2	THR	292	-26.549	8.048	-0.910	23.00	C
ATOM	4233	HG21	THR	292	-26.760	8.530	0.009	0.00	H
ATOM	4234	HG22	THR	292	-26.999	7.089	-0.917	0.00	H
ATOM	4235	HG23	THR	292	-25.501	7.947	-1.024	0.00	H
ATOM	4236	C	THR	292	-28.920	9.637	-0.554	26.24	C
ATOM	4237	O	THR	292	-29.334	8.927	0.362	28.58	O
ATOM	4238	N	LEU	293	-28.727	10.948	-0.431	24.80	N
ATOM	4239	HN	LEU	293	-28.402	11.460	-1.237	0.00	H
ATOM	4240	CA	LEU	293	-28.972	11.646	0.826	23.19	C
ATOM	4241	HA	LEU	293	-28.488	11.132	1.615	0.00	H
ATOM	4242	CB	LEU	293	-28.433	13.075	0.760	22.68	C
ATOM	4243	HB2	LEU	293	-28.687	13.505	-0.174	0.00	H
ATOM	4244	HB3	LEU	293	-28.859	13.649	1.541	0.00	H
ATOM	4245	CG	LEU	293	-26.929	13.302	0.892	21.66	C
ATOM	4246	HG	LEU	293	-26.412	12.607	0.282	0.00	H
ATOM	4247	CD1	LEU	293	-26.591	14.711	0.451	22.16	C
ATOM	4248	HD11	LEU	293	-26.881	14.844	-0.559	0.00	H
ATOM	4249	HD12	LEU	293	-27.108	15.405	1.061	0.00	H
ATOM	4250	HD13	LEU	293	-25.548	14.869	0.542	0.00	H
ATOM	4251	CD2	LEU	293	-26.498	13.069	2.323	19.60	C
ATOM	4252	HD21	LEU	293	-27.010	13.742	2.960	0.00	H
ATOM	4253	HD22	LEU	293	-26.727	12.074	2.603	0.00	H
ATOM	4254	HD23	LEU	293	-25.454	13.228	2.408	0.00	H
ATOM	4255	C	LEU	293	-30.442	11.699	1.185	22.92	C
ATOM	4256	O	LEU	293	-30.805	11.555	2.343	23.37	O
ATOM	4257	N	THR	294	-31.289	11.924	0.191	23.36	N
ATOM	4258	HN	THR	294	-30.923	12.034	-0.743	0.00	H
ATOM	4259	CA	THR	294	-32.721	12.014	0.425	22.82	C
ATOM	4260	HA	THR	294	-32.902	12.610	1.282	0.00	H
ATOM	4261	CB	THR	294	-33.408	12.651	-0.790	21.91	C
ATOM	4262	HB	THR	294	-33.219	12.063	-1.651	0.00	H
ATOM	4263	OG1	THR	294	-32.881	13.969	-0.966	24.42	O
ATOM	4264	HG1	THR	294	-33.304	14.386	-1.729	0.00	H
ATOM	4265	CG2	THR	294	-34.916	12.747	-0.593	19.62	C
ATOM	4266	HG21	THR	294	-35.316	11.777	-0.453	0.00	H
ATOM	4267	HG22	THR	294	-35.124	13.341	0.259	0.00	H
ATOM	4268	HG23	THR	294	-35.356	13.190	-1.448	0.00	H
ATOM	4269	C	THR	294	-33.340	10.655	0.744	23.43	C
ATOM	4270	O	THR	294	-34.251	10.560	1.571	22.13	O
ATOM	4271	N	CYS	295	-32.840	9.606	0.098	23.91	N
ATOM	4272	HN	CYS	295	-32.095	9.759	-0.565	0.00	H

ATOM	4273	CA	CYS	295	-33.344	8.256	0.330	24.88	C
ATOM	4274	HA	CYS	295	-34.397	8.248	0.215	0.00	H
ATOM	4275	CB	CYS	295	-32.710	7.292	-0.664	25.94	C
ATOM	4276	HB2	CYS	295	-32.885	7.636	-1.650	0.00	H
ATOM	4277	HB3	CYS	295	-31.667	7.240	-0.489	0.00	H
ATOM	4278	SG	CYS	295	-33.330	5.603	-0.590	25.59	S
ATOM	4279	HG	CYS	295	-32.742	4.906	-1.445	0.00	H
ATOM	4280	C	CYS	295	-32.961	7.864	1.748	25.68	C
ATOM	4281	O	CYS	295	-33.797	7.431	2.552	23.15	O
ATOM	4282	N	TYR	296	-31.681	8.034	2.052	26.30	N
ATOM	4283	HN	TYR	296	-31.057	8.389	1.343	0.00	H
ATOM	4284	CA	TYR	296	-31.172	7.720	3.375	26.20	C
ATOM	4285	HA	TYR	296	-31.265	6.680	3.551	0.00	H
ATOM	4286	CB	TYR	296	-29.697	8.127	3.453	25.82	C
ATOM	4287	HB2	TYR	296	-29.125	7.504	2.815	0.00	H
ATOM	4288	HB3	TYR	296	-29.593	9.136	3.148	0.00	H
ATOM	4289	CG	TYR	296	-29.087	8.022	4.825	29.06	C
ATOM	4290	CD1	TYR	296	-29.455	8.903	5.843	29.97	C
ATOM	4291	HD1	TYR	296	-30.186	9.671	5.652	0.00	H
ATOM	4292	CE1	TYR	296	-28.895	8.811	7.109	30.97	C
ATOM	4293	HE1	TYR	296	-29.194	9.499	7.881	0.00	H
ATOM	4294	CD2	TYR	296	-28.140	7.046	5.114	30.15	C
ATOM	4295	HD2	TYR	296	-27.835	6.349	4.352	0.00	H
ATOM	4296	CE2	TYR	296	-27.570	6.948	6.381	29.87	C
ATOM	4297	HE2	TYR	296	-26.836	6.187	6.584	0.00	H
ATOM	4298	CZ	TYR	296	-27.953	7.830	7.367	30.39	C
ATOM	4299	OH	TYR	296	-27.389	7.732	8.613	32.24	O
ATOM	4300	HH	TYR	296	-27.756	8.417	9.188	0.00	H
ATOM	4301	C	TYR	296	-32.019	8.429	4.439	26.10	C
ATOM	4302	O	TYR	296	-32.573	7.783	5.327	26.73	O
ATOM	4303	N	LEU	297	-32.140	9.748	4.335	25.57	N
ATOM	4304	HN	LEU	297	-31.681	10.221	3.571	0.00	H
ATOM	4305	CA	LEU	297	-32.921	10.511	5.302	26.99	C
ATOM	4306	HA	LEU	297	-32.450	10.467	6.249	0.00	H
ATOM	4307	CB	LEU	297	-33.032	11.983	4.869	25.10	C
ATOM	4308	HB2	LEU	297	-32.090	12.454	4.975	0.00	H
ATOM	4309	HB3	LEU	297	-33.339	12.031	3.856	0.00	H
ATOM	4310	CG	LEU	297	-34.015	12.907	5.617	23.84	C
ATOM	4311	HG	LEU	297	-35.006	12.571	5.457	0.00	H
ATOM	4312	CD1	LEU	297	-33.748	12.916	7.115	22.85	C
ATOM	4313	HD11	LEU	297	-33.855	11.935	7.499	0.00	H
ATOM	4314	HD12	LEU	297	-32.763	13.260	7.296	0.00	H
ATOM	4315	HD13	LEU	297	-34.440	13.559	7.593	0.00	H
ATOM	4316	CD2	LEU	297	-33.896	14.306	5.059	23.73	C
ATOM	4317	HD21	LEU	297	-32.905	14.656	5.192	0.00	H
ATOM	4318	HD22	LEU	297	-34.131	14.295	4.026	0.00	H
ATOM	4319	HD23	LEU	297	-34.568	14.947	5.568	0.00	H
ATOM	4320	C	LEU	297	-34.317	9.920	5.488	28.61	C
ATOM	4321	O	LEU	297	-34.713	9.573	6.607	31.00	O
ATOM	4322	N	LYS	298	-35.059	9.798	4.393	28.49	N
ATOM	4323	HN	LYS	298	-34.671	10.085	3.507	0.00	H
ATOM	4324	CA	LYS	298	-36.413	9.260	4.456	27.90	C
ATOM	4325	HA	LYS	298	-36.999	9.855	5.106	0.00	H
ATOM	4326	CB	LYS	298	-37.042	9.268	3.056	25.50	C
ATOM	4327	HB2	LYS	298	-36.408	8.753	2.381	0.00	H
ATOM	4328	HB3	LYS	298	-37.985	8.788	3.090	0.00	H
ATOM	4329	CG	LYS	298	-37.251	10.686	2.522	23.68	C
ATOM	4330	HG2	LYS	298	-37.839	11.238	3.208	0.00	H
ATOM	4331	HG3	LYS	298	-36.312	11.160	2.401	0.00	H
ATOM	4332	CD	LYS	298	-37.960	10.747	1.175	21.57	C
ATOM	4333	HD2	LYS	298	-37.337	10.327	0.429	0.00	H
ATOM	4334	HD3	LYS	298	-38.866	10.201	1.228	0.00	H
ATOM	4335	CE	LYS	298	-38.274	12.188	0.801	18.55	C
ATOM	4336	HE2	LYS	298	-38.909	12.613	1.534	0.00	H
ATOM	4337	HE3	LYS	298	-37.374	12.743	0.749	0.00	H
ATOM	4338	NZ	LYS	298	-38.959	12.316	-0.517	18.43	N1+
ATOM	4339	HZ1	LYS	298	-38.369	11.935	-1.241	0.00	H
ATOM	4340	HZ2	LYS	298	-39.832	11.810	-0.493	0.00	H
ATOM	4341	HZ3	LYS	298	-39.140	13.290	-0.709	0.00	H
ATOM	4342	C	LYS	298	-36.446	7.859	5.065	27.99	C
ATOM	4343	O	LYS	298	-37.191	7.602	5.999	27.57	O
ATOM	4344	N	ALA	299	-35.621	6.961	4.551	29.28	N
ATOM	4345	HN	ALA	299	-35.011	7.231	3.794	0.00	H
ATOM	4346	CA	ALA	299	-35.586	5.595	5.065	31.37	C
ATOM	4347	HA	ALA	299	-36.547	5.159	4.975	0.00	H

ATOM	4348	CB	ALA	299	-34.581	4.764	4.271	31.80	C
ATOM	4349	HB1	ALA	299	-34.866	4.745	3.251	0.00	H
ATOM	4350	HB2	ALA	299	-33.618	5.195	4.361	0.00	H
ATOM	4351	HB3	ALA	299	-34.562	3.775	4.650	0.00	H
ATOM	4352	C	ALA	299	-35.249	5.545	6.559	32.34	C
ATOM	4353	O	ALA	299	-36.034	5.014	7.355	31.10	O
ATOM	4354	N	THR	300	-34.092	6.093	6.941	33.06	N
ATOM	4355	HN	THR	300	-33.492	6.514	6.248	0.00	H
ATOM	4356	CA	THR	300	-33.691	6.087	8.351	32.72	C
ATOM	4357	HA	THR	300	-33.449	5.099	8.645	0.00	H
ATOM	4358	CB	THR	300	-32.452	6.982	8.626	30.57	C
ATOM	4359	HB	THR	300	-32.616	7.946	8.221	0.00	H
ATOM	4360	OG1	THR	300	-31.287	6.407	8.029	30.14	O
ATOM	4361	HG1	THR	300	-30.522	6.972	8.206	0.00	H
ATOM	4362	CG2	THR	300	-32.217	7.104	10.118	27.43	C
ATOM	4363	HG21	THR	300	-33.068	7.539	10.575	0.00	H
ATOM	4364	HG22	THR	300	-32.049	6.142	10.529	0.00	H
ATOM	4365	HG23	THR	300	-31.371	7.716	10.293	0.00	H
ATOM	4366	C	THR	300	-34.834	6.584	9.237	33.73	C
ATOM	4367	O	THR	300	-35.110	6.000	10.285	33.54	O
ATOM	4368	N	ALA	301	-35.497	7.658	8.815	33.61	N
ATOM	4369	HN	ALA	301	-35.230	8.098	7.947	0.00	H
ATOM	4370	CA	ALA	301	-36.599	8.197	9.595	34.97	C
ATOM	4371	HA	ALA	301	-36.280	8.357	10.592	0.00	H
ATOM	4372	CB	ALA	301	-37.067	9.515	9.008	34.73	C
ATOM	4373	HB1	ALA	301	-36.267	10.209	9.016	0.00	H
ATOM	4374	HB2	ALA	301	-37.392	9.362	8.012	0.00	H
ATOM	4375	HB3	ALA	301	-37.869	9.894	9.587	0.00	H
ATOM	4376	C	ALA	301	-37.743	7.191	9.606	36.72	C
ATOM	4377	O	ALA	301	-38.314	6.893	10.661	37.61	O
ATOM	4378	N	ALA	302	-38.068	6.665	8.430	36.87	N
ATOM	4379	HN	ALA	302	-37.550	6.953	7.613	0.00	H
ATOM	4380	CA	ALA	302	-39.142	5.696	8.305	37.18	C
ATOM	4381	HA	ALA	302	-40.055	6.140	8.606	0.00	H
ATOM	4382	CB	ALA	302	-39.267	5.235	6.872	36.08	C
ATOM	4383	HB1	ALA	302	-39.477	6.066	6.251	0.00	H
ATOM	4384	HB2	ALA	302	-38.358	4.786	6.565	0.00	H
ATOM	4385	HB3	ALA	302	-40.053	4.529	6.795	0.00	H
ATOM	4386	C	ALA	302	-38.891	4.503	9.219	38.85	C
ATOM	4387	O	ALA	302	-39.832	3.973	9.820	40.89	O
ATOM	4388	N	CYS	303	-37.636	4.070	9.325	38.13	N
ATOM	4389	HN	CYS	303	-36.904	4.525	8.801	0.00	H
ATOM	4390	CA	CYS	303	-37.317	2.942	10.195	37.59	C
ATOM	4391	HA	CYS	303	-37.861	2.089	9.881	0.00	H
ATOM	4392	CB	CYS	303	-35.836	2.597	10.109	38.23	C
ATOM	4393	HB2	CYS	303	-35.263	3.486	10.163	0.00	H
ATOM	4394	HB3	CYS	303	-35.575	1.959	10.913	0.00	H
ATOM	4395	SG	CYS	303	-35.397	1.759	8.585	42.19	S
ATOM	4396	HG	CYS	303	-34.172	1.509	8.585	0.00	H
ATOM	4397	C	CYS	303	-37.687	3.264	11.639	37.91	C
ATOM	4398	O	CYS	303	-38.227	2.426	12.359	37.58	O
ATOM	4399	N	ARG	304	-37.401	4.487	12.064	37.69	N
ATOM	4400	HN	ARG	304	-36.950	5.140	11.441	0.00	H
ATOM	4401	CA	ARG	304	-37.733	4.888	13.416	38.03	C
ATOM	4402	HA	ARG	304	-37.341	4.181	14.100	0.00	H
ATOM	4403	CB	ARG	304	-37.140	6.263	13.730	36.02	C
ATOM	4404	HB2	ARG	304	-37.489	6.968	13.021	0.00	H
ATOM	4405	HB3	ARG	304	-37.438	6.562	14.701	0.00	H
ATOM	4406	CG	ARG	304	-35.630	6.279	13.688	33.31	C
ATOM	4407	HG2	ARG	304	-35.253	5.462	14.247	0.00	H
ATOM	4408	HG3	ARG	304	-35.304	6.200	12.684	0.00	H
ATOM	4409	CD	ARG	304	-35.091	7.551	14.271	31.54	C
ATOM	4410	HD2	ARG	304	-35.563	8.379	13.809	0.00	H
ATOM	4411	HD3	ARG	304	-35.283	7.571	15.312	0.00	H
ATOM	4412	NE	ARG	304	-33.654	7.677	14.071	31.42	N1+
ATOM	4413	HE	ARG	304	-33.133	6.917	13.660	0.00	H
ATOM	4414	CZ	ARG	304	-32.961	8.761	14.405	32.28	C
ATOM	4415	NH1	ARG	304	-33.583	9.801	14.957	29.78	N
ATOM	4416	HH11	ARG	304	-33.059	10.625	15.211	0.00	H
ATOM	4417	HH12	ARG	304	-34.578	9.765	15.121	0.00	H
ATOM	4418	NH2	ARG	304	-31.653	8.812	14.178	31.08	N
ATOM	4419	HH21	ARG	304	-31.129	9.636	14.432	0.00	H
ATOM	4420	HH22	ARG	304	-31.184	8.027	13.751	0.00	H
ATOM	4421	C	ARG	304	-39.247	4.914	13.596	39.14	C
ATOM	4422	O	ARG	304	-39.745	4.674	14.690	41.50	O

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ATOM   4423  N   ALA  305     -39.981   5.204  12.528   39.09           N
ATOM   4424  HN  ALA  305     -39.526   5.401  11.649    0.00           H
ATOM   4425  CA  ALA  305     -41.432   5.239  12.620   39.56           C
ATOM   4426  HA  ALA  305     -41.718   5.784  13.482    0.00           H
ATOM   4427  CB  ALA  305     -42.016   5.903  11.401   39.12           C
ATOM   4428  HB1 ALA  305     -41.650   6.894  11.329    0.00           H
ATOM   4429  HB2 ALA  305     -41.737   5.360  10.536    0.00           H
ATOM   4430  HB3 ALA  305     -43.072   5.922  11.481    0.00           H
ATOM   4431  C   ALA  305     -41.984   3.828  12.755   41.22           C
ATOM   4432  O   ALA  305     -43.004   3.617  13.403   41.68           O
ATOM   4433  N   ALA  306     -41.303   2.863  12.145   42.59           N
ATOM   4434  HN  ALA  306     -40.467   3.115  11.638    0.00           H
ATOM   4435  CA  ALA  306     -41.735   1.469  12.194   44.67           C
ATOM   4436  HA  ALA  306     -42.791   1.429  12.266    0.00           H
ATOM   4437  CB  ALA  306     -41.290   0.746  10.933   43.79           C
ATOM   4438  HB1 ALA  306     -41.720   1.216  10.087    0.00           H
ATOM   4439  HB2 ALA  306     -40.234   0.783  10.859    0.00           H
ATOM   4440  HB3 ALA  306     -41.606  -0.264  10.975    0.00           H
ATOM   4441  C   ALA  306     -41.181   0.757  13.424   47.00           C
ATOM   4442  O   ALA  306     -41.636  -0.325  13.799   48.06           O
ATOM   4443  N   LYS  307     -40.185   1.373  14.045   48.95           N
ATOM   4444  HN  LYS  307     -39.868   2.255  13.670    0.00           H
ATOM   4445  CA  LYS  307     -39.552   0.817  15.231   49.29           C
ATOM   4446  HA  LYS  307     -38.845   1.508  15.611    0.00           H
ATOM   4447  CB  LYS  307     -40.603   0.530  16.313   49.84           C
ATOM   4448  HB2 LYS  307     -41.189  -0.304  16.024    0.00           H
ATOM   4449  HB3 LYS  307     -40.117   0.319  17.230    0.00           H
ATOM   4450  CG  LYS  307     -41.570   1.685  16.576   50.58           C
ATOM   4451  HG2 LYS  307     -41.069   2.606  16.427    0.00           H
ATOM   4452  HG3 LYS  307     -42.390   1.618  15.909    0.00           H
ATOM   4453  CD  LYS  307     -42.105   1.656  17.997   49.75           C
ATOM   4454  HD2 LYS  307     -42.834   2.415  18.115    0.00           H
ATOM   4455  HD3 LYS  307     -42.544   0.712  18.190    0.00           H
ATOM   4456  CE  LYS  307     -40.970   1.892  18.985   50.48           C
ATOM   4457  HE2 LYS  307     -40.193   1.195  18.803    0.00           H
ATOM   4458  HE3 LYS  307     -40.597   2.876  18.865    0.00           H
ATOM   4459  NZ  LYS  307     -41.385   1.740  20.408   52.11           N1+
ATOM   4460  HZ1 LYS  307     -42.114   2.405  20.619    0.00           H
ATOM   4461  HZ2 LYS  307     -41.730   0.804  20.560    0.00           H
ATOM   4462  HZ3 LYS  307     -40.592   1.908  21.009    0.00           H
ATOM   4463  C   LYS  307     -38.746  -0.450  14.930   48.91           C
ATOM   4464  O   LYS  307     -38.642  -1.341  15.770   50.54           O
ATOM   4465  N   LEU  308     -38.179  -0.539  13.732   48.44           N
ATOM   4466  HN  LEU  308     -38.320   0.202  13.061    0.00           H
ATOM   4467  CA  LEU  308     -37.357  -1.697  13.381   49.62           C
ATOM   4468  HA  LEU  308     -37.909  -2.585  13.548    0.00           H
ATOM   4469  CB  LEU  308     -36.950  -1.630  11.907   47.59           C
ATOM   4470  HB2 LEU  308     -36.367  -0.762  11.741    0.00           H
ATOM   4471  HB3 LEU  308     -36.383  -2.489  11.658    0.00           H
ATOM   4472  CG  LEU  308     -38.098  -1.571  10.897   45.13           C
ATOM   4473  HG  LEU  308     -38.788  -0.824  11.191    0.00           H
ATOM   4474  CD1 LEU  308     -37.557  -1.241   9.531   43.55           C
ATOM   4475 HD11 LEU  308     -37.069  -0.302   9.562    0.00           H
ATOM   4476 HD12 LEU  308     -36.867  -1.988   9.235    0.00           H
ATOM   4477 HD13 LEU  308     -38.355  -1.201   8.836    0.00           H
ATOM   4478  CD2 LEU  308     -38.823  -2.894  10.872   45.24           C
ATOM   4479 HD21 LEU  308     -38.149  -3.661  10.592    0.00           H
ATOM   4480 HD22 LEU  308     -39.213  -3.101  11.835    0.00           H
ATOM   4481 HD23 LEU  308     -39.616  -2.849  10.172    0.00           H
ATOM   4482  C   LEU  308     -36.112  -1.632  14.279   50.98           C
ATOM   4483  O   LEU  308     -35.572  -0.550  14.515   51.35           O
ATOM   4484  N   GLN  309     -35.653  -2.771  14.786   51.64           N
ATOM   4485  HN  GLN  309     -36.103  -3.646  14.564    0.00           H
ATOM   4486  CA  GLN  309     -34.493  -2.751  15.668   53.04           C
ATOM   4487  HA  GLN  309     -34.414  -1.799  16.126    0.00           H
ATOM   4488  CB  GLN  309     -34.639  -3.821  16.754   55.63           C
ATOM   4489  HB2 GLN  309     -34.805  -4.764  16.301    0.00           H
ATOM   4490  HB3 GLN  309     -33.753  -3.859  17.333    0.00           H
ATOM   4491  CG  GLN  309     -35.800  -3.551  17.700   58.79           C
ATOM   4492  HG2 GLN  309     -36.713  -3.624  17.168    0.00           H
ATOM   4493  HG3 GLN  309     -35.790  -4.263  18.483    0.00           H
ATOM   4494  CD  GLN  309     -35.737  -2.156  18.334   60.91           C
ATOM   4495  OE1 GLN  309     -35.685  -1.131  17.638   59.69           O
ATOM   4496  NE2 GLN  309     -35.751  -2.117  19.665   62.57           N
ATOM   4497 HE21 GLN  309     -35.794  -2.975  20.194    0.00           H
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ATOM   4498  HE22 GLN   309     -35.719  -1.230  20.144    0.00          H
ATOM   4499  C    GLN   309     -33.171  -2.912  14.947   52.73          C
ATOM   4500  O    GLN   309     -33.095  -3.588  13.921   53.04          O
ATOM   4501  N    ASP   310     -32.135  -2.280  15.491   51.60          N
ATOM   4502  HN   ASP   310     -32.290  -1.748  16.334    0.00          H
ATOM   4503  CA   ASP   310     -30.803  -2.341  14.902   52.24          C
ATOM   4504  HA   ASP   310     -30.277  -1.450  15.126    0.00          H
ATOM   4505  CB   ASP   310     -30.035  -3.536  15.470   55.31          C
ATOM   4506  HB2  ASP   310     -30.654  -4.395  15.451    0.00          H
ATOM   4507  HB3  ASP   310     -29.170  -3.711  14.884    0.00          H
ATOM   4508  CG   ASP   310     -29.586  -3.317  16.910   59.11          C
ATOM   4509  OD1  ASP   310     -30.376  -2.749  17.702   59.24          O
ATOM   4510  OD2  ASP   310     -28.448  -3.730  17.248   60.51          O1-
ATOM   4511  C    ASP   310     -30.852  -2.453  13.380   50.77          C
ATOM   4512  O    ASP   310     -30.647  -3.537  12.835   50.77          O
ATOM   4513  N    CYS   311     -31.133  -1.343  12.699   48.73          N
ATOM   4514  HN   CYS   311     -31.305  -0.492  13.214    0.00          H
ATOM   4515  CA   CYS   311     -31.195  -1.339  11.236   46.63          C
ATOM   4516  HA   CYS   311     -31.431  -2.312  10.890    0.00          H
ATOM   4517  CB   CYS   311     -32.274  -0.366  10.729   44.67          C
ATOM   4518  HB2  CYS   311     -32.042   0.616  11.049    0.00          H
ATOM   4519  HB3  CYS   311     -32.305  -0.394   9.671    0.00          H
ATOM   4520  SG   CYS   311     -33.980  -0.665  11.274   43.18          S
ATOM   4521  HG   CYS   311     -34.733   0.203  10.782    0.00          H
ATOM   4522  C    CYS   311     -29.853  -0.914  10.644   45.93          C
ATOM   4523  O    CYS   311     -29.178  -0.055  11.191   46.22          O
ATOM   4524  N    THR   312     -29.464  -1.521   9.530   45.02          N
ATOM   4525  HN   THR   312     -30.040  -2.254   9.144    0.00          H
ATOM   4526  CA   THR   312     -28.224  -1.143   8.865   44.83          C
ATOM   4527  HA   THR   312     -27.879  -0.222   9.258    0.00          H
ATOM   4528  CB   THR   312     -27.117  -2.189   9.062   44.70          C
ATOM   4529  HB   THR   312     -27.509  -3.156   8.882    0.00          H
ATOM   4530  OG1  THR   312     -26.641  -2.114  10.409   46.49          O
ATOM   4531  HG1  THR   312     -25.943  -2.770  10.541    0.00          H
ATOM   4532  CG2  THR   312     -25.960  -1.938   8.097   41.78          C
ATOM   4533  HG21 THR   312     -26.313  -1.996   7.100    0.00          H
ATOM   4534  HG22 THR   312     -25.556  -0.975   8.273    0.00          H
ATOM   4535  HG23 THR   312     -25.209  -2.669   8.249    0.00          H
ATOM   4536  C    THR   312     -28.509  -0.987   7.382   45.05          C
ATOM   4537  O    THR   312     -28.683  -1.975   6.661   45.45          O
ATOM   4538  N    MET   313     -28.554   0.257   6.924   43.75          N
ATOM   4539  HN   MET   313     -28.384   1.033   7.547    0.00          H
ATOM   4540  CA   MET   313     -28.848   0.501   5.527   43.02          C
ATOM   4541  HA   MET   313     -29.349  -0.339   5.120    0.00          H
ATOM   4542  CB   MET   313     -29.738   1.731   5.386   44.77          C
ATOM   4543  HB2  MET   313     -29.206   2.590   5.704    0.00          H
ATOM   4544  HB3  MET   313     -30.022   1.847   4.372    0.00          H
ATOM   4545  CG   MET   313     -31.005   1.657   6.204   46.97          C
ATOM   4546  HG2  MET   313     -31.516   0.757   5.982    0.00          H
ATOM   4547  HG3  MET   313     -30.762   1.680   7.234    0.00          H
ATOM   4548  SD   MET   313     -32.070   3.042   5.825   49.75          S
ATOM   4549  CE   MET   313     -30.920   4.409   5.984   48.57          C
ATOM   4550  HE1  MET   313     -30.532   4.431   6.969    0.00          H
ATOM   4551  HE2  MET   313     -30.126   4.284   5.294    0.00          H
ATOM   4552  HE3  MET   313     -31.423   5.319   5.783    0.00          H
ATOM   4553  C    MET   313     -27.652   0.659   4.613   41.23          C
ATOM   4554  O    MET   313     -26.536   0.944   5.037   41.04          O
ATOM   4555  N    LEU   314     -27.921   0.444   3.337   40.03          N
ATOM   4556  HN   LEU   314     -28.864   0.164   3.113    0.00          H
ATOM   4557  CA   LEU   314     -26.943   0.591   2.285   39.23          C
ATOM   4558  HA   LEU   314     -26.120   1.152   2.644    0.00          H
ATOM   4559  CB   LEU   314     -26.443  -0.773   1.817   37.96          C
ATOM   4560  HB2  LEU   314     -26.067  -1.314   2.646    0.00          H
ATOM   4561  HB3  LEU   314     -27.243  -1.311   1.378    0.00          H
ATOM   4562  CG   LEU   314     -25.322  -0.729   0.777   37.09          C
ATOM   4563  HG   LEU   314     -25.656  -0.203  -0.079    0.00          H
ATOM   4564  CD1  LEU   314     -24.122  -0.024   1.373   37.89          C
ATOM   4565  HD11 LEU   314     -24.393   0.962   1.648    0.00          H
ATOM   4566  HD12 LEU   314     -23.793  -0.551   2.230    0.00          H
ATOM   4567  HD13 LEU   314     -23.342   0.010   0.658    0.00          H
ATOM   4568  CD2  LEU   314     -24.945  -2.135   0.347   34.82          C
ATOM   4569  HD21 LEU   314     -24.613  -2.685   1.189    0.00          H
ATOM   4570  HD22 LEU   314     -25.790  -2.613  -0.076    0.00          H
ATOM   4571  HD23 LEU   314     -24.169  -2.088  -0.372    0.00          H
ATOM   4572  C    LEU   314     -27.757   1.287   1.192   39.71          C
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ATOM	4573	O	LEU	314	-28.688	0.710	0.623	39.57	O
ATOM	4574	N	VAL	315	-27.429	2.546	0.937	39.35	N
ATOM	4575	HN	VAL	315	-26.666	2.962	1.449	0.00	H
ATOM	4576	CA	VAL	315	-28.145	3.324	-0.058	38.18	C
ATOM	4577	HA	VAL	315	-28.978	2.770	-0.407	0.00	H
ATOM	4578	CB	VAL	315	-28.647	4.655	0.551	39.01	C
ATOM	4579	HB	VAL	315	-27.817	5.257	0.817	0.00	H
ATOM	4580	CG1	VAL	315	-29.440	5.452	-0.480	37.93	C
ATOM	4581	HG11	VAL	315	-28.821	5.667	-1.312	0.00	H
ATOM	4582	HG12	VAL	315	-30.275	4.884	-0.799	0.00	H
ATOM	4583	HG13	VAL	315	-29.774	6.358	-0.045	0.00	H
ATOM	4584	CG2	VAL	315	-29.483	4.374	1.794	39.28	C
ATOM	4585	HG21	VAL	315	-30.315	3.774	1.531	0.00	H
ATOM	4586	HG22	VAL	315	-28.892	3.864	2.509	0.00	H
ATOM	4587	HG23	VAL	315	-29.823	5.289	2.205	0.00	H
ATOM	4588	C	VAL	315	-27.265	3.651	-1.250	38.40	C
ATOM	4589	O	VAL	315	-26.115	4.070	-1.092	38.30	O
ATOM	4590	N	ASN	316	-27.808	3.433	-2.442	37.37	N
ATOM	4591	HN	ASN	316	-28.734	3.033	-2.474	0.00	H
ATOM	4592	CA	ASN	316	-27.109	3.753	-3.680	37.79	C
ATOM	4593	HA	ASN	316	-26.208	4.263	-3.455	0.00	H
ATOM	4594	CB	ASN	316	-26.761	2.496	-4.480	38.31	C
ATOM	4595	HB2	ASN	316	-27.587	1.833	-4.472	0.00	H
ATOM	4596	HB3	ASN	316	-26.534	2.765	-5.479	0.00	H
ATOM	4597	CG	ASN	316	-25.569	1.756	-3.918	37.60	C
ATOM	4598	OD1	ASN	316	-25.652	1.100	-2.875	38.29	O
ATOM	4599	ND2	ASN	316	-24.446	1.862	-4.604	37.50	N
ATOM	4600	HD21	ASN	316	-24.422	2.409	-5.452	0.00	H
ATOM	4601	HD22	ASN	316	-23.611	1.396	-4.280	0.00	H
ATOM	4602	C	ASN	316	-28.080	4.602	-4.473	37.73	C
ATOM	4603	O	ASN	316	-28.958	4.079	-5.147	38.18	O
ATOM	4604	N	GLY	317	-27.933	5.916	-4.383	37.72	N
ATOM	4605	HN	GLY	317	-27.193	6.314	-3.824	0.00	H
ATOM	4606	CA	GLY	317	-28.845	6.781	-5.096	38.29	C
ATOM	4607	HA2	GLY	317	-28.565	7.791	-4.945	0.00	H
ATOM	4608	HA3	GLY	317	-28.810	6.556	-6.130	0.00	H
ATOM	4609	C	GLY	317	-30.237	6.537	-4.554	38.88	C
ATOM	4610	O	GLY	317	-30.516	6.820	-3.391	39.87	O
ATOM	4611	N	ASP	318	-31.115	5.991	-5.385	39.03	N
ATOM	4612	HN	ASP	318	-30.830	5.762	-6.325	0.00	H
ATOM	4613	CA	ASP	318	-32.479	5.722	-4.951	39.79	C
ATOM	4614	HA	ASP	318	-32.691	6.287	-4.081	0.00	H
ATOM	4615	CB	ASP	318	-33.469	6.109	-6.056	40.99	C
ATOM	4616	HB2	ASP	318	-34.440	6.202	-5.643	0.00	H
ATOM	4617	HB3	ASP	318	-33.177	7.033	-6.484	0.00	H
ATOM	4618	CG	ASP	318	-33.531	5.081	-7.166	41.99	C
ATOM	4619	OD1	ASP	318	-32.469	4.705	-7.700	41.08	O
ATOM	4620	OD2	ASP	318	-34.652	4.649	-7.503	45.00	O1-
ATOM	4621	C	ASP	318	-32.649	4.245	-4.609	38.36	C
ATOM	4622	O	ASP	318	-33.759	3.795	-4.331	37.19	O
ATOM	4623	N	ASP	319	-31.541	3.504	-4.629	38.16	N
ATOM	4624	HN	ASP	319	-30.676	3.973	-4.852	0.00	H
ATOM	4625	CA	ASP	319	-31.543	2.067	-4.344	37.61	C
ATOM	4626	HA	ASP	319	-32.509	1.673	-4.524	0.00	H
ATOM	4627	CB	ASP	319	-30.534	1.355	-5.244	39.96	C
ATOM	4628	HB2	ASP	319	-30.447	1.879	-6.160	0.00	H
ATOM	4629	HB3	ASP	319	-29.591	1.326	-4.763	0.00	H
ATOM	4630	CG	ASP	319	-30.942	-0.068	-5.558	43.16	C
ATOM	4631	OD1	ASP	319	-30.695	-0.970	-4.721	44.75	O
ATOM	4632	OD2	ASP	319	-31.529	-0.279	-6.643	45.55	O1-
ATOM	4633	C	ASP	319	-31.215	1.817	-2.884	36.10	C
ATOM	4634	O	ASP	319	-30.115	2.105	-2.419	36.05	O
ATOM	4635	N	LEU	320	-32.179	1.244	-2.180	34.82	N
ATOM	4636	HN	LEU	320	-33.018	0.969	-2.669	0.00	H
ATOM	4637	CA	LEU	320	-32.060	1.008	-0.758	35.29	C
ATOM	4638	HA	LEU	320	-31.073	1.229	-0.445	0.00	H
ATOM	4639	CB	LEU	320	-33.057	1.920	-0.058	33.71	C
ATOM	4640	HB2	LEU	320	-32.677	2.908	-0.037	0.00	H
ATOM	4641	HB3	LEU	320	-33.977	1.907	-0.583	0.00	H
ATOM	4642	CG	LEU	320	-33.423	1.610	1.382	33.61	C
ATOM	4643	HG	LEU	320	-33.615	0.573	1.482	0.00	H
ATOM	4644	CD1	LEU	320	-32.280	2.000	2.285	32.82	C
ATOM	4645	HD11	LEU	320	-31.414	1.453	2.015	0.00	H
ATOM	4646	HD12	LEU	320	-32.088	3.037	2.184	0.00	H
ATOM	4647	HD13	LEU	320	-32.535	1.784	3.290	0.00	H

ATOM	4648	CD2	LEU	320	-34.687	2.374	1.737	34.61	C
ATOM	4649	HD21	LEU	320	-34.515	3.413	1.625	0.00	H
ATOM	4650	HD22	LEU	320	-35.473	2.075	1.093	0.00	H
ATOM	4651	HD23	LEU	320	-34.955	2.167	2.741	0.00	H
ATOM	4652	C	LEU	320	-32.272	-0.434	-0.306	36.54	C
ATOM	4653	O	LEU	320	-33.034	-1.187	-0.904	36.00	O
ATOM	4654	N	VAL	321	-31.594	-0.797	0.777	38.28	N
ATOM	4655	HN	VAL	321	-30.998	-0.105	1.207	0.00	H
ATOM	4656	CA	VAL	321	-31.686	-2.137	1.348	39.33	C
ATOM	4657	HA	VAL	321	-32.657	-2.526	1.182	0.00	H
ATOM	4658	CB	VAL	321	-30.656	-3.096	0.705	38.61	C
ATOM	4659	HB	VAL	321	-30.835	-3.160	-0.337	0.00	H
ATOM	4660	CG1	VAL	321	-29.249	-2.553	0.893	36.37	C
ATOM	4661	HG11	VAL	321	-29.173	-1.602	0.433	0.00	H
ATOM	4662	HG12	VAL	321	-29.041	-2.462	1.927	0.00	H
ATOM	4663	HG13	VAL	321	-28.553	-3.216	0.450	0.00	H
ATOM	4664	CG2	VAL	321	-30.784	-4.479	1.322	38.08	C
ATOM	4665	HG21	VAL	321	-30.603	-4.419	2.364	0.00	H
ATOM	4666	HG22	VAL	321	-31.761	-4.851	1.154	0.00	H
ATOM	4667	HG23	VAL	321	-30.077	-5.130	0.878	0.00	H
ATOM	4668	C	VAL	321	-31.434	-2.078	2.854	40.35	C
ATOM	4669	O	VAL	321	-30.407	-1.575	3.299	40.43	O
ATOM	4670	N	VAL	322	-32.375	-2.601	3.632	41.45	N
ATOM	4671	HN	VAL	322	-33.184	-3.009	3.188	0.00	H
ATOM	4672	CA	VAL	322	-32.265	-2.597	5.084	42.88	C
ATOM	4673	HA	VAL	322	-31.453	-1.983	5.375	0.00	H
ATOM	4674	CB	VAL	322	-33.552	-2.054	5.721	42.47	C
ATOM	4675	HB	VAL	322	-34.334	-2.757	5.591	0.00	H
ATOM	4676	CG1	VAL	322	-33.363	-1.894	7.218	42.45	C
ATOM	4677	HG11	VAL	322	-33.132	-2.834	7.647	0.00	H
ATOM	4678	HG12	VAL	322	-32.570	-1.217	7.403	0.00	H
ATOM	4679	HG13	VAL	322	-34.255	-1.519	7.648	0.00	H
ATOM	4680	CG2	VAL	322	-33.940	-0.756	5.069	42.74	C
ATOM	4681	HG21	VAL	322	-33.162	-0.049	5.199	0.00	H
ATOM	4682	HG22	VAL	322	-34.103	-0.915	4.035	0.00	H
ATOM	4683	HG23	VAL	322	-34.828	-0.389	5.514	0.00	H
ATOM	4684	C	VAL	322	-32.021	-3.988	5.673	44.44	C
ATOM	4685	O	VAL	322	-32.675	-4.955	5.287	45.88	O
ATOM	4686	N	ILE	323	-31.075	-4.087	6.598	45.27	N
ATOM	4687	HN	ILE	323	-30.543	-3.263	6.835	0.00	H
ATOM	4688	CA	ILE	323	-30.797	-5.353	7.268	47.01	C
ATOM	4689	HA	ILE	323	-31.484	-6.087	6.934	0.00	H
ATOM	4690	CB	ILE	323	-29.372	-5.859	6.976	45.60	C
ATOM	4691	HB	ILE	323	-28.693	-5.048	7.025	0.00	H
ATOM	4692	CG2	ILE	323	-28.960	-6.907	7.990	45.69	C
ATOM	4693	HG21	ILE	323	-28.982	-6.486	8.962	0.00	H
ATOM	4694	HG22	ILE	323	-29.631	-7.725	7.944	0.00	H
ATOM	4695	HG23	ILE	323	-27.979	-7.242	7.773	0.00	H
ATOM	4696	CG1	ILE	323	-29.339	-6.469	5.576	45.50	C
ATOM	4697	HG12	ILE	323	-30.039	-7.262	5.520	0.00	H
ATOM	4698	HG13	ILE	323	-29.588	-5.728	4.862	0.00	H
ATOM	4699	CD1	ILE	323	-27.999	-7.034	5.176	44.73	C
ATOM	4700	HD11	ILE	323	-27.271	-6.265	5.196	0.00	H
ATOM	4701	HD12	ILE	323	-27.722	-7.799	5.854	0.00	H
ATOM	4702	HD13	ILE	323	-28.063	-7.435	4.198	0.00	H
ATOM	4703	C	ILE	323	-30.982	-5.050	8.744	49.37	C
ATOM	4704	O	ILE	323	-30.327	-4.160	9.289	48.25	O
ATOM	4705	N	CYS	324	-31.885	-5.781	9.390	52.12	N
ATOM	4706	HN	CYS	324	-32.365	-6.523	8.903	0.00	H
ATOM	4707	CA	CYS	324	-32.183	-5.517	10.791	55.13	C
ATOM	4708	HA	CYS	324	-31.372	-4.999	11.233	0.00	H
ATOM	4709	CB	CYS	324	-33.398	-4.614	10.864	54.98	C
ATOM	4710	HB2	CYS	324	-33.664	-4.462	11.878	0.00	H
ATOM	4711	HB3	CYS	324	-33.173	-3.682	10.415	0.00	H
ATOM	4712	SG	CYS	324	-34.783	-5.357	10.002	56.13	S
ATOM	4713	HG	CYS	324	-35.774	-4.598	10.073	0.00	H
ATOM	4714	C	CYS	324	-32.435	-6.713	11.697	56.90	C
ATOM	4715	O	CYS	324	-32.538	-7.854	11.253	57.77	O
ATOM	4716	N	GLU	325	-32.558	-6.406	12.985	59.16	N
ATOM	4717	HN	GLU	325	-32.470	-5.430	13.225	0.00	H
ATOM	4718	CA	GLU	325	-32.806	-7.392	14.027	60.53	C
ATOM	4719	HA	GLU	325	-32.238	-8.264	13.831	0.00	H
ATOM	4720	CB	GLU	325	-32.398	-6.809	15.384	61.11	C
ATOM	4721	HB2	GLU	325	-31.442	-6.361	15.303	0.00	H
ATOM	4722	HB3	GLU	325	-33.106	-6.080	15.682	0.00	H

ATOM	4723	CG	GLU	325	-32.319	-7.833	16.488	63.86	C
ATOM	4724	HG2	GLU	325	-32.043	-7.356	17.392	0.00	H
ATOM	4725	HG3	GLU	325	-33.263	-8.297	16.607	0.00	H
ATOM	4726	CD	GLU	325	-31.294	-8.912	16.187	64.68	C
ATOM	4727	OE1	GLU	325	-30.084	-8.584	16.105	65.21	O1-
ATOM	4728	OE2	GLU	325	-31.705	-10.083	16.024	64.48	O
ATOM	4729	C	GLU	325	-34.294	-7.756	14.028	60.40	C
ATOM	4730	O	GLU	325	-35.138	-6.961	14.438	59.45	O
ATOM	4731	N	SER	326	-34.605	-8.961	13.564	61.56	N
ATOM	4732	HN	SER	326	-33.860	-9.569	13.256	0.00	H
ATOM	4733	CA	SER	326	-35.990	-9.412	13.494	63.07	C
ATOM	4734	HA	SER	326	-36.569	-8.695	12.972	0.00	H
ATOM	4735	CB	SER	326	-36.094	-10.750	12.765	62.41	C
ATOM	4736	HB2	SER	326	-35.813	-10.623	11.752	0.00	H
ATOM	4737	HB3	SER	326	-35.449	-11.453	13.224	0.00	H
ATOM	4738	OG	SER	326	-37.424	-11.235	12.820	60.35	O
ATOM	4739	HG	SER	326	-37.478	-12.082	12.356	0.00	H
ATOM	4740	C	SER	326	-36.655	-9.560	14.847	63.98	C
ATOM	4741	O	SER	326	-35.987	-9.770	15.857	64.26	O
ATOM	4742	N	ALA	327	-37.981	-9.445	14.847	64.83	N
ATOM	4743	HN	ALA	327	-38.431	-9.249	13.965	0.00	H
ATOM	4744	CA	ALA	327	-38.780	-9.591	16.056	66.15	C
ATOM	4745	HA	ALA	327	-38.141	-9.756	16.884	0.00	H
ATOM	4746	CB	ALA	327	-39.599	-8.341	16.310	64.91	C
ATOM	4747	HB1	ALA	327	-38.951	-7.512	16.426	0.00	H
ATOM	4748	HB2	ALA	327	-40.247	-8.171	15.490	0.00	H
ATOM	4749	HB3	ALA	327	-40.172	-8.467	17.192	0.00	H
ATOM	4750	C	ALA	327	-39.699	-10.787	15.841	67.39	C
ATOM	4751	O	ALA	327	-40.135	-11.431	16.796	68.62	O
ATOM	4752	N	GLY	328	-39.982	-11.079	14.575	67.86	N
ATOM	4753	HN	GLY	328	-39.595	-10.507	13.840	0.00	H
ATOM	4754	CA	GLY	328	-40.835	-12.203	14.245	68.15	C
ATOM	4755	HA2	GLY	328	-40.237	-13.056	14.056	0.00	H
ATOM	4756	HA3	GLY	328	-41.487	-12.401	15.056	0.00	H
ATOM	4757	C	GLY	328	-41.707	-11.998	13.021	68.80	C
ATOM	4758	O	GLY	328	-42.329	-10.946	12.858	69.14	O
ATOM	4759	N	THR	329	-41.739	-13.017	12.164	68.76	N
ATOM	4760	HN	THR	329	-41.174	-13.819	12.400	0.00	H
ATOM	4761	CA	THR	329	-42.534	-13.019	10.937	68.90	C
ATOM	4762	HA	THR	329	-41.922	-12.738	10.120	0.00	H
ATOM	4763	CB	THR	329	-43.113	-14.426	10.670	68.20	C
ATOM	4764	HB	THR	329	-43.698	-14.730	11.499	0.00	H
ATOM	4765	OG1	THR	329	-42.045	-15.362	10.491	68.14	O
ATOM	4766	HG1	THR	329	-42.411	-16.241	10.324	0.00	H
ATOM	4767	CG2	THR	329	-43.985	-14.419	9.431	68.03	C
ATOM	4768	HG21	THR	329	-44.786	-13.739	9.567	0.00	H
ATOM	4769	HG22	THR	329	-43.407	-14.122	8.595	0.00	H
ATOM	4770	HG23	THR	329	-44.371	-15.391	9.266	0.00	H
ATOM	4771	C	THR	329	-43.706	-12.047	11.032	70.13	C
ATOM	4772	O	THR	329	-43.797	-11.060	10.299	70.39	O
ATOM	4773	N	GLN	330	-44.596	-12.349	11.967	70.84	N
ATOM	4774	HN	GLN	330	-44.407	-13.172	12.520	0.00	H
ATOM	4775	CA	GLN	330	-45.794	-11.565	12.217	70.90	C
ATOM	4776	HA	GLN	330	-46.446	-11.643	11.387	0.00	H
ATOM	4777	CB	GLN	330	-46.495	-12.099	13.474	72.81	C
ATOM	4778	HB2	GLN	330	-46.072	-11.646	14.333	0.00	H
ATOM	4779	HB3	GLN	330	-47.528	-11.870	13.426	0.00	H
ATOM	4780	CG	GLN	330	-46.374	-13.619	13.655	75.26	C
ATOM	4781	HG2	GLN	330	-47.152	-13.962	14.285	0.00	H
ATOM	4782	HG3	GLN	330	-46.448	-14.094	12.711	0.00	H
ATOM	4783	CD	GLN	330	-45.047	-14.056	14.285	76.24	C
ATOM	4784	OE1	GLN	330	-43.975	-13.562	13.925	77.75	O
ATOM	4785	NE2	GLN	330	-45.121	-15.001	15.223	75.86	N
ATOM	4786	HE21	GLN	330	-46.018	-15.379	15.489	0.00	H
ATOM	4787	HE22	GLN	330	-44.280	-15.338	15.667	0.00	H
ATOM	4788	C	GLN	330	-45.503	-10.080	12.391	69.09	C
ATOM	4789	O	GLN	330	-46.145	-9.235	11.771	68.43	O
ATOM	4790	N	GLU	331	-44.529	-9.781	13.243	67.71	N
ATOM	4791	HN	GLU	331	-44.050	-10.552	13.685	0.00	H
ATOM	4792	CA	GLU	331	-44.141	-8.407	13.551	66.85	C
ATOM	4793	HA	GLU	331	-45.003	-7.843	13.797	0.00	H
ATOM	4794	CB	GLU	331	-43.176	-8.391	14.733	68.14	C
ATOM	4795	HB2	GLU	331	-42.317	-8.963	14.495	0.00	H
ATOM	4796	HB3	GLU	331	-42.889	-7.393	14.941	0.00	H
ATOM	4797	CG	GLU	331	-43.746	-8.962	16.014	69.90	C

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ATOM   4798  HG2 GLU   331     -44.032  -8.170  16.657        0.00           H
ATOM   4799  HG3 GLU   331     -44.592  -9.558  15.789        0.00           H
ATOM   4800  CD  GLU   331     -42.729  -9.825  16.737       71.34           C
ATOM   4801  OE1 GLU   331     -42.419 -10.918  16.211       71.62           O1-
ATOM   4802  OE2 GLU   331     -42.234  -9.412  17.813       71.83           O
ATOM   4803  C   GLU   331     -43.501  -7.667  12.392       64.58           C
ATOM   4804  O   GLU   331     -43.902  -6.552  12.056       64.57           O
ATOM   4805  N   ASP   332     -42.488  -8.281  11.800       61.78           N
ATOM   4806  HN  ASP   332     -42.199  -9.187  12.138        0.00           H
ATOM   4807  CA  ASP   332     -41.798  -7.671  10.683       58.93           C
ATOM   4808  HA  ASP   332     -41.283  -6.808  11.015        0.00           H
ATOM   4809  CB  ASP   332     -40.799  -8.655  10.091       56.81           C
ATOM   4810  HB2 ASP   332     -41.321  -9.446   9.618        0.00           H
ATOM   4811  HB3 ASP   332     -40.193  -8.157   9.380        0.00           H
ATOM   4812  CG  ASP   332     -39.894  -9.253  11.139       55.71           C
ATOM   4813  OD1 ASP   332     -39.728  -8.626  12.213       53.76           O
ATOM   4814  OD2 ASP   332     -39.343 -10.344  10.884       54.93           O1-
ATOM   4815  C   ASP   332     -42.791  -7.222   9.618       58.69           C
ATOM   4816  O   ASP   332     -42.792  -6.058   9.215       58.62           O
ATOM   4817  N   ALA   333     -43.638  -8.140   9.163       58.10           N
ATOM   4818  HN  ALA   333     -43.592  -9.079   9.529        0.00           H
ATOM   4819  CA  ALA   333     -44.627  -7.801   8.145       57.41           C
ATOM   4820  HA  ALA   333     -44.144  -7.681   7.210        0.00           H
ATOM   4821  CB  ALA   333     -45.669  -8.909   8.028       57.52           C
ATOM   4822  HB1 ALA   333     -45.192  -9.815   7.758        0.00           H
ATOM   4823  HB2 ALA   333     -46.159  -9.032   8.958        0.00           H
ATOM   4824  HB3 ALA   333     -46.379  -8.649   7.286        0.00           H
ATOM   4825  C   ALA   333     -45.301  -6.493   8.533       56.87           C
ATOM   4826  O   ALA   333     -45.467  -5.593   7.701       57.63           O
ATOM   4827  N   ALA   334     -45.678  -6.403   9.808       55.18           N
ATOM   4828  HN  ALA   334     -45.489  -7.196  10.403        0.00           H
ATOM   4829  CA  ALA   334     -46.338  -5.223  10.353       53.89           C
ATOM   4830  HA  ALA   334     -47.202  -5.006   9.781        0.00           H
ATOM   4831  CB  ALA   334     -46.745  -5.477  11.803       52.09           C
ATOM   4832  HB1 ALA   334     -47.411  -6.299  11.844        0.00           H
ATOM   4833  HB2 ALA   334     -45.883  -5.692  12.379        0.00           H
ATOM   4834  HB3 ALA   334     -47.223  -4.616  12.191        0.00           H
ATOM   4835  C   ALA   334     -45.410  -4.016  10.273       53.27           C
ATOM   4836  O   ALA   334     -45.786  -2.962   9.760       53.15           O
ATOM   4837  N   ALA   335     -44.194  -4.184  10.780       52.80           N
ATOM   4838  HN  ALA   335     -43.966  -5.083  11.178        0.00           H
ATOM   4839  CA  ALA   335     -43.202  -3.117  10.773       53.17           C
ATOM   4840  HA  ALA   335     -43.589  -2.272  11.281        0.00           H
ATOM   4841  CB  ALA   335     -41.923  -3.584  11.475       52.01           C
ATOM   4842  HB1 ALA   335     -42.146  -3.845  12.477        0.00           H
ATOM   4843  HB2 ALA   335     -41.530  -4.427  10.969        0.00           H
ATOM   4844  HB3 ALA   335     -41.209  -2.802  11.465        0.00           H
ATOM   4845  C   ALA   335     -42.895  -2.664   9.344       53.56           C
ATOM   4846  O   ALA   335     -42.797  -1.460   9.075       53.64           O
ATOM   4847  N   LEU   336     -42.743  -3.623   8.430       52.90           N
ATOM   4848  HN  LEU   336     -42.824  -4.589   8.710        0.00           H
ATOM   4849  CA  LEU   336     -42.463  -3.288   7.039       52.43           C
ATOM   4850  HA  LEU   336     -41.585  -2.699   6.988        0.00           H
ATOM   4851  CB  LEU   336     -42.255  -4.551   6.199       52.91           C
ATOM   4852  HB2 LEU   336     -41.606  -5.213   6.711        0.00           H
ATOM   4853  HB3 LEU   336     -43.188  -5.025   6.038        0.00           H
ATOM   4854  CG  LEU   336     -41.638  -4.279   4.825       53.09           C
ATOM   4855  HG  LEU   336     -42.287  -3.660   4.263        0.00           H
ATOM   4856  CD1 LEU   336     -40.305  -3.585   5.011       53.97           C
ATOM   4857 HD11 LEU   336     -40.452  -2.670   5.524        0.00           H
ATOM   4858 HD12 LEU   336     -39.659  -4.206   5.575        0.00           H
ATOM   4859 HD13 LEU   336     -39.872  -3.393   4.064        0.00           H
ATOM   4860  CD2 LEU   336     -41.439  -5.565   4.067       53.44           C
ATOM   4861 HD21 LEU   336     -40.791  -6.200   4.613        0.00           H
ATOM   4862 HD22 LEU   336     -42.374  -6.044   3.934        0.00           H
ATOM   4863 HD23 LEU   336     -41.012  -5.355   3.121        0.00           H
ATOM   4864  C   LEU   336     -43.644  -2.486   6.498       52.04           C
ATOM   4865  O   LEU   336     -43.472  -1.551   5.711       53.03           O
ATOM   4866  N   ARG   337     -44.848  -2.852   6.918       50.63           N
ATOM   4867  HN  ARG   337     -44.949  -3.642   7.538        0.00           H
ATOM   4868  CA  ARG   337     -46.021  -2.115   6.485       49.59           C
ATOM   4869  HA  ARG   337     -46.034  -2.061   5.427        0.00           H
ATOM   4870  CB  ARG   337     -47.306  -2.803   6.958       51.48           C
ATOM   4871  HB2 ARG   337     -47.146  -3.231   7.913        0.00           H
ATOM   4872  HB3 ARG   337     -48.087  -2.090   7.016        0.00           H
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ATOM	4873	CG	ARG	337	-47.801	-3.931	6.043	52.40	C
ATOM	4874	HG2	ARG	337	-47.672	-3.647	5.031	0.00	H
ATOM	4875	HG3	ARG	337	-47.245	-4.812	6.236	0.00	H
ATOM	4876	CD	ARG	337	-49.299	-4.232	6.282	53.65	C
ATOM	4877	HD2	ARG	337	-49.844	-3.324	6.293	0.00	H
ATOM	4878	HD3	ARG	337	-49.663	-4.853	5.505	0.00	H
ATOM	4879	NE	ARG	337	-49.541	-4.916	7.554	53.55	N1+
ATOM	4880	HE	ARG	337	-50.066	-4.456	8.283	0.00	H
ATOM	4881	CZ	ARG	337	-49.108	-6.143	7.837	53.19	C
ATOM	4882	NH1	ARG	337	-48.412	-6.834	6.938	51.98	N
ATOM	4883	HH11	ARG	337	-48.086	-7.763	7.158	0.00	H
ATOM	4884	HH12	ARG	337	-48.210	-6.429	6.036	0.00	H
ATOM	4885	NH2	ARG	337	-49.363	-6.676	9.023	52.07	N
ATOM	4886	HH21	ARG	337	-49.036	-7.606	9.239	0.00	H
ATOM	4887	HH22	ARG	337	-49.884	-6.152	9.710	0.00	H
ATOM	4888	C	ARG	337	-45.931	-0.702	7.062	48.03	C
ATOM	4889	O	ARG	337	-46.303	0.270	6.406	49.32	O
ATOM	4890	N	ALA	338	-45.423	-0.594	8.287	45.72	N
ATOM	4891	HN	ALA	338	-45.144	-1.440	8.761	0.00	H
ATOM	4892	CA	ALA	338	-45.264	0.701	8.947	43.57	C
ATOM	4893	HA	ALA	338	-46.191	1.214	8.946	0.00	H
ATOM	4894	CB	ALA	338	-44.802	0.503	10.391	42.56	C
ATOM	4895	HB1	ALA	338	-45.522	-0.068	10.917	0.00	H
ATOM	4896	HB2	ALA	338	-43.874	-0.006	10.398	0.00	H
ATOM	4897	HB3	ALA	338	-44.690	1.447	10.858	0.00	H
ATOM	4898	C	ALA	338	-44.242	1.543	8.190	42.19	C
ATOM	4899	O	ALA	338	-44.453	2.726	7.935	41.35	O
ATOM	4900	N	PHE	339	-43.132	0.911	7.836	41.12	N
ATOM	4901	HN	PHE	339	-43.049	-0.062	8.088	0.00	H
ATOM	4902	CA	PHE	339	-42.058	1.567	7.112	41.04	C
ATOM	4903	HA	PHE	339	-41.669	2.359	7.698	0.00	H
ATOM	4904	CB	PHE	339	-40.956	0.559	6.823	40.16	C
ATOM	4905	HB2	PHE	339	-40.538	0.221	7.736	0.00	H
ATOM	4906	HB3	PHE	339	-41.361	-0.264	6.294	0.00	H
ATOM	4907	CG	PHE	339	-39.829	1.110	5.995	39.61	C
ATOM	4908	CD1	PHE	339	-38.757	1.754	6.601	38.10	C
ATOM	4909	HD1	PHE	339	-38.749	1.898	7.668	0.00	H
ATOM	4910	CD2	PHE	339	-39.822	0.946	4.609	38.78	C
ATOM	4911	HD2	PHE	339	-40.647	0.456	4.121	0.00	H
ATOM	4912	CE1	PHE	339	-37.688	2.219	5.846	38.43	C
ATOM	4913	HE1	PHE	339	-36.862	2.713	6.329	0.00	H
ATOM	4914	CE2	PHE	339	-38.760	1.408	3.842	38.97	C
ATOM	4915	HE2	PHE	339	-38.768	1.273	2.774	0.00	H
ATOM	4916	CZ	PHE	339	-37.685	2.047	4.465	39.28	C
ATOM	4917	HZ	PHE	339	-36.855	2.406	3.879	0.00	H
ATOM	4918	C	PHE	339	-42.527	2.163	5.790	41.72	C
ATOM	4919	O	PHE	339	-42.067	3.236	5.375	41.28	O
ATOM	4920	N	THR	340	-43.439	1.459	5.128	40.80	N
ATOM	4921	HN	THR	340	-43.784	0.602	5.533	0.00	H
ATOM	4922	CA	THR	340	-43.939	1.906	3.842	40.15	C
ATOM	4923	HA	THR	340	-43.132	2.256	3.252	0.00	H
ATOM	4924	CB	THR	340	-44.625	0.759	3.115	40.36	C
ATOM	4925	HB	THR	340	-45.552	0.549	3.582	0.00	H
ATOM	4926	OG1	THR	340	-43.784	-0.401	3.167	39.33	O
ATOM	4927	HG1	THR	340	-44.216	-1.133	2.706	0.00	H
ATOM	4928	CG2	THR	340	-44.874	1.132	1.661	40.53	C
ATOM	4929	HG21	THR	340	-45.494	1.990	1.618	0.00	H
ATOM	4930	HG22	THR	340	-43.950	1.340	1.187	0.00	H
ATOM	4931	HG23	THR	340	-45.351	0.326	1.167	0.00	H
ATOM	4932	C	THR	340	-44.896	3.085	3.961	40.09	C
ATOM	4933	O	THR	340	-45.005	3.903	3.048	39.21	O
ATOM	4934	N	GLU	341	-45.588	3.172	5.089	40.47	N
ATOM	4935	HN	GLU	341	-45.457	2.463	5.795	0.00	H
ATOM	4936	CA	GLU	341	-46.523	4.264	5.319	41.67	C
ATOM	4937	HA	GLU	341	-47.148	4.378	4.471	0.00	H
ATOM	4938	CB	GLU	341	-47.391	3.979	6.536	45.20	C
ATOM	4939	HB2	GLU	341	-46.772	3.777	7.371	0.00	H
ATOM	4940	HB3	GLU	341	-47.998	4.822	6.742	0.00	H
ATOM	4941	CG	GLU	341	-48.322	2.805	6.398	50.58	C
ATOM	4942	HG2	GLU	341	-49.133	3.070	5.771	0.00	H
ATOM	4943	HG3	GLU	341	-47.799	1.988	5.973	0.00	H
ATOM	4944	CD	GLU	341	-48.872	2.380	7.752	55.00	C
ATOM	4945	OE1	GLU	341	-49.291	3.275	8.530	56.17	O1-
ATOM	4946	OE2	GLU	341	-48.886	1.158	8.038	56.57	O
ATOM	4947	C	GLU	341	-45.767	5.562	5.559	40.40	C

ATOM	4948	O	GLU	341	-46.177	6.629	5.091	40.72	O
ATOM	4949	N	ALA	342	-44.676	5.470	6.316	37.74	N
ATOM	4950	HN	ALA	342	-44.415	4.571	6.692	0.00	H
ATOM	4951	CA	ALA	342	-43.865	6.641	6.603	35.30	C
ATOM	4952	HA	ALA	342	-44.486	7.423	6.956	0.00	H
ATOM	4953	CB	ALA	342	-42.822	6.317	7.667	33.67	C
ATOM	4954	HB1	ALA	342	-43.308	6.008	8.556	0.00	H
ATOM	4955	HB2	ALA	342	-42.193	5.539	7.320	0.00	H
ATOM	4956	HB3	ALA	342	-42.240	7.179	7.865	0.00	H
ATOM	4957	C	ALA	342	-43.200	7.095	5.302	33.64	C
ATOM	4958	O	ALA	342	-43.316	8.255	4.922	32.14	O
ATOM	4959	N	MET	343	-42.518	6.183	4.613	32.38	N
ATOM	4960	HN	MET	343	-42.445	5.240	4.965	0.00	H
ATOM	4961	CA	MET	343	-41.878	6.543	3.353	32.61	C
ATOM	4962	HA	MET	343	-41.112	7.251	3.536	0.00	H
ATOM	4963	CB	MET	343	-41.260	5.316	2.679	31.87	C
ATOM	4964	HB2	MET	343	-41.959	4.521	2.684	0.00	H
ATOM	4965	HB3	MET	343	-41.003	5.554	1.680	0.00	H
ATOM	4966	CG	MET	343	-40.000	4.793	3.340	31.84	C
ATOM	4967	HG2	MET	343	-40.174	4.660	4.376	0.00	H
ATOM	4968	HG3	MET	343	-39.732	3.865	2.905	0.00	H
ATOM	4969	SD	MET	343	-38.579	5.884	3.177	31.20	S
ATOM	4970	CE	MET	343	-37.699	5.075	1.868	31.35	C
ATOM	4971	HE1	MET	343	-37.449	4.090	2.167	0.00	H
ATOM	4972	HE2	MET	343	-38.309	5.037	1.003	0.00	H
ATOM	4973	HE3	MET	343	-36.814	5.614	1.652	0.00	H
ATOM	4974	C	MET	343	-42.914	7.174	2.422	32.27	C
ATOM	4975	O	MET	343	-42.621	8.134	1.701	33.27	O
ATOM	4976	N	THR	344	-44.128	6.641	2.442	31.31	N
ATOM	4977	HN	THR	344	-44.316	5.853	3.043	0.00	H
ATOM	4978	CA	THR	344	-45.188	7.187	1.603	31.05	C
ATOM	4979	HA	THR	344	-44.845	7.259	0.604	0.00	H
ATOM	4980	CB	THR	344	-46.446	6.297	1.621	29.28	C
ATOM	4981	HB	THR	344	-46.755	6.142	2.622	0.00	H
ATOM	4982	OG1	THR	344	-46.140	5.030	1.022	26.09	O
ATOM	4983	HG1	THR	344	-46.928	4.470	1.032	0.00	H
ATOM	4984	CG2	THR	344	-47.579	6.960	0.851	25.39	C
ATOM	4985	HG21	THR	344	-47.811	7.892	1.297	0.00	H
ATOM	4986	HG22	THR	344	-47.281	7.114	-0.153	0.00	H
ATOM	4987	HG23	THR	344	-48.434	6.336	0.874	0.00	H
ATOM	4988	C	THR	344	-45.556	8.584	2.083	31.53	C
ATOM	4989	O	THR	344	-45.839	9.474	1.282	31.05	O
ATOM	4990	N	ARG	345	-45.549	8.781	3.394	32.53	N
ATOM	4991	HN	ARG	345	-45.319	8.026	4.023	0.00	H
ATOM	4992	CA	ARG	345	-45.874	10.091	3.923	34.25	C
ATOM	4993	HA	ARG	345	-46.791	10.421	3.509	0.00	H
ATOM	4994	CB	ARG	345	-46.010	10.048	5.448	34.73	C
ATOM	4995	HB2	ARG	345	-45.311	9.359	5.845	0.00	H
ATOM	4996	HB3	ARG	345	-45.822	11.011	5.846	0.00	H
ATOM	4997	CG	ARG	345	-47.378	9.625	5.938	35.98	C
ATOM	4998	HG2	ARG	345	-48.124	10.080	5.339	0.00	H
ATOM	4999	HG3	ARG	345	-47.466	8.572	5.872	0.00	H
ATOM	5000	CD	ARG	345	-47.603	10.040	7.391	37.77	C
ATOM	5001	HD2	ARG	345	-47.476	11.087	7.483	0.00	H
ATOM	5002	HD3	ARG	345	-48.586	9.776	7.685	0.00	H
ATOM	5003	NE	ARG	345	-46.664	9.386	8.300	38.88	N1+
ATOM	5004	HE	ARG	345	-45.954	9.929	8.768	0.00	H
ATOM	5005	CZ	ARG	345	-46.674	8.085	8.567	38.87	C
ATOM	5006	NH1	ARG	345	-47.580	7.298	7.997	38.81	N
ATOM	5007	HH11	ARG	345	-47.588	6.310	8.199	0.00	H
ATOM	5008	HH12	ARG	345	-48.260	7.689	7.362	0.00	H
ATOM	5009	NH2	ARG	345	-45.773	7.570	9.394	40.15	N
ATOM	5010	HH21	ARG	345	-45.781	6.582	9.597	0.00	H
ATOM	5011	HH22	ARG	345	-45.080	8.167	9.820	0.00	H
ATOM	5012	C	ARG	345	-44.792	11.088	3.531	35.53	C
ATOM	5013	O	ARG	345	-45.076	12.276	3.341	35.69	O
ATOM	5014	N	TYR	346	-43.559	10.594	3.405	35.60	N
ATOM	5015	HN	TYR	346	-43.438	9.605	3.566	0.00	H
ATOM	5016	CA	TYR	346	-42.409	11.423	3.050	35.67	C
ATOM	5017	HA	TYR	346	-42.502	12.372	3.512	0.00	H
ATOM	5018	CB	TYR	346	-41.111	10.767	3.520	34.51	C
ATOM	5019	HB2	TYR	346	-40.996	9.830	3.041	0.00	H
ATOM	5020	HB3	TYR	346	-40.291	11.392	3.276	0.00	H
ATOM	5021	CG	TYR	346	-41.052	10.517	5.004	34.86	C
ATOM	5022	CD1	TYR	346	-41.867	11.233	5.883	33.80	C

ATOM	5023	HD1	TYR	346	-42.573	11.951	5.500	0.00	H
ATOM	5024	CE1	TYR	346	-41.788	11.039	7.256	34.94	C
ATOM	5025	HE1	TYR	346	-42.428	11.599	7.917	0.00	H
ATOM	5026	CD2	TYR	346	-40.150	9.594	5.541	34.09	C
ATOM	5027	HD2	TYR	346	-39.510	9.024	4.888	0.00	H
ATOM	5028	CE2	TYR	346	-40.061	9.394	6.918	33.51	C
ATOM	5029	HE2	TYR	346	-39.359	8.680	7.314	0.00	H
ATOM	5030	CZ	TYR	346	-40.883	10.122	7.768	34.49	C
ATOM	5031	OH	TYR	346	-40.802	9.952	9.133	35.99	O
ATOM	5032	HH	TYR	346	-41.434	10.540	9.569	0.00	H
ATOM	5033	C	TYR	346	-42.307	11.677	1.557	36.84	C
ATOM	5034	O	TYR	346	-41.334	12.267	1.089	37.54	O
ATOM	5035	N	SER	347	-43.304	11.220	0.814	36.47	N
ATOM	5036	HN	SER	347	-44.065	10.737	1.267	0.00	H
ATOM	5037	CA	SER	347	-43.315	11.402	-0.622	37.32	C
ATOM	5038	HA	SER	347	-44.287	11.207	-0.995	0.00	H
ATOM	5039	CB	SER	347	-42.924	12.831	-0.976	36.05	C
ATOM	5040	HB2	SER	347	-43.663	13.499	-0.617	0.00	H
ATOM	5041	HB3	SER	347	-41.992	13.063	-0.529	0.00	H
ATOM	5042	OG	SER	347	-42.812	12.980	-2.377	36.31	O
ATOM	5043	HG	SER	347	-42.564	13.891	-2.585	0.00	H
ATOM	5044	C	SER	347	-42.377	10.424	-1.324	39.79	C
ATOM	5045	O	SER	347	-41.557	10.817	-2.160	41.55	O
ATOM	5046	N	ALA	348	-42.497	9.147	-0.974	39.67	N
ATOM	5047	HN	ALA	348	-43.172	8.907	-0.263	0.00	H
ATOM	5048	CA	ALA	348	-41.685	8.107	-1.588	39.27	C
ATOM	5049	HA	ALA	348	-41.497	8.357	-2.600	0.00	H
ATOM	5050	CB	ALA	348	-40.360	7.971	-0.855	37.95	C
ATOM	5051	HB1	ALA	348	-39.836	8.890	-0.899	0.00	H
ATOM	5052	HB2	ALA	348	-40.541	7.716	0.157	0.00	H
ATOM	5053	HB3	ALA	348	-39.780	7.212	-1.312	0.00	H
ATOM	5054	C	ALA	348	-42.442	6.777	-1.578	39.91	C
ATOM	5055	O	ALA	348	-42.025	5.808	-0.940	39.91	O
ATOM	5056	N	PRO	349	-43.586	6.721	-2.273	39.96	N
ATOM	5057	CD	PRO	349	-44.265	7.800	-3.009	40.83	C
ATOM	5058	HD2	PRO	349	-44.795	8.413	-2.327	0.00	H
ATOM	5059	HD3	PRO	349	-43.546	8.383	-3.523	0.00	H
ATOM	5060	CA	PRO	349	-44.363	5.478	-2.312	39.80	C
ATOM	5061	HA	PRO	349	-44.589	5.172	-1.324	0.00	H
ATOM	5062	CB	PRO	349	-45.633	5.880	-3.066	40.61	C
ATOM	5063	HB2	PRO	349	-45.983	5.056	-3.632	0.00	H
ATOM	5064	HB3	PRO	349	-46.377	6.173	-2.372	0.00	H
ATOM	5065	CG	PRO	349	-45.172	7.025	-3.937	41.78	C
ATOM	5066	HG2	PRO	349	-44.663	6.642	-4.783	0.00	H
ATOM	5067	HG3	PRO	349	-46.011	7.587	-4.254	0.00	H
ATOM	5068	C	PRO	349	-43.585	4.361	-3.001	39.12	C
ATOM	5069	O	PRO	349	-42.697	4.616	-3.819	38.47	O
ATOM	5070	N	PRO	350	-43.913	3.103	-2.672	39.18	N
ATOM	5071	CD	PRO	350	-44.833	2.720	-1.584	38.40	C
ATOM	5072	HD2	PRO	350	-44.432	3.034	-0.656	0.00	H
ATOM	5073	HD3	PRO	350	-45.773	3.183	-1.737	0.00	H
ATOM	5074	CA	PRO	350	-43.256	1.919	-3.236	37.87	C
ATOM	5075	HA	PRO	350	-42.220	2.110	-3.348	0.00	H
ATOM	5076	CB	PRO	350	-43.507	0.866	-2.172	38.60	C
ATOM	5077	HB2	PRO	350	-43.443	-0.097	-2.607	0.00	H
ATOM	5078	HB3	PRO	350	-42.781	0.957	-1.407	0.00	H
ATOM	5079	CG	PRO	350	-44.895	1.216	-1.714	37.83	C
ATOM	5080	HG2	PRO	350	-45.597	0.897	-2.440	0.00	H
ATOM	5081	HG3	PRO	350	-45.095	0.733	-0.793	0.00	H
ATOM	5082	C	PRO	350	-43.739	1.454	-4.598	36.81	C
ATOM	5083	O	PRO	350	-44.919	1.544	-4.915	34.96	O
ATOM	5084	N	GLY	351	-42.806	0.951	-5.397	37.96	N
ATOM	5085	HN	GLY	351	-41.845	0.934	-5.091	0.00	H
ATOM	5086	CA	GLY	351	-43.160	0.429	-6.699	39.64	C
ATOM	5087	HA2	GLY	351	-43.804	1.112	-7.190	0.00	H
ATOM	5088	HA3	GLY	351	-42.282	0.295	-7.276	0.00	H
ATOM	5089	C	GLY	351	-43.848	-0.884	-6.398	41.24	C
ATOM	5090	O	GLY	351	-45.048	-1.038	-6.585	41.17	O
ATOM	5091	N	ASP	352	-43.080	-1.843	-5.911	43.92	N
ATOM	5092	HN	ASP	352	-42.091	-1.680	-5.793	0.00	H
ATOM	5093	CA	ASP	352	-43.653	-3.128	-5.546	47.86	C
ATOM	5094	HA	ASP	352	-44.642	-3.192	-5.919	0.00	H
ATOM	5095	CB	ASP	352	-42.831	-4.270	-6.130	49.51	C
ATOM	5096	HB2	ASP	352	-41.935	-4.380	-5.576	0.00	H
ATOM	5097	HB3	ASP	352	-43.389	-5.168	-6.080	0.00	H

ATOM	5098	CG	ASP	352	-42.462	-4.032	-7.567	52.21	C
ATOM	5099	OD1	ASP	352	-43.391	-3.816	-8.380	53.29	O
ATOM	5100	OD2	ASP	352	-41.247	-4.055	-7.875	53.51	O1-
ATOM	5101	C	ASP	352	-43.595	-3.200	-4.033	48.54	C
ATOM	5102	O	ASP	352	-42.616	-2.766	-3.426	49.49	O
ATOM	5103	N	PRO	353	-44.641	-3.730	-3.395	48.96	N
ATOM	5104	CD	PRO	353	-45.936	-4.235	-3.877	49.37	C
ATOM	5105	HD2	PRO	353	-46.279	-3.625	-4.671	0.00	H
ATOM	5106	HD3	PRO	353	-45.821	-5.230	-4.221	0.00	H
ATOM	5107	CA	PRO	353	-44.561	-3.794	-1.935	49.07	C
ATOM	5108	HA	PRO	353	-44.530	-2.812	-1.540	0.00	H
ATOM	5109	CB	PRO	353	-45.842	-4.535	-1.553	49.14	C
ATOM	5110	HB2	PRO	353	-45.657	-5.578	-1.543	0.00	H
ATOM	5111	HB3	PRO	353	-46.157	-4.223	-0.591	0.00	H
ATOM	5112	CG	PRO	353	-46.794	-4.130	-2.630	49.18	C
ATOM	5113	HG2	PRO	353	-47.619	-4.794	-2.640	0.00	H
ATOM	5114	HG3	PRO	353	-47.136	-3.145	-2.447	0.00	H
ATOM	5115	C	PRO	353	-43.293	-4.550	-1.510	48.50	C
ATOM	5116	O	PRO	353	-42.936	-5.580	-2.099	47.47	O
ATOM	5117	N	PRO	354	-42.585	-4.032	-0.499	47.36	N
ATOM	5118	CD	PRO	354	-42.876	-2.822	0.284	46.87	C
ATOM	5119	HD2	PRO	354	-42.617	-1.965	-0.281	0.00	H
ATOM	5120	HD3	PRO	354	-43.909	-2.792	0.517	0.00	H
ATOM	5121	CA	PRO	354	-41.364	-4.677	-0.018	48.62	C
ATOM	5122	HA	PRO	354	-40.731	-4.892	-0.839	0.00	H
ATOM	5123	CB	PRO	354	-40.777	-3.637	0.916	47.77	C
ATOM	5124	HB2	PRO	354	-40.169	-4.115	1.639	0.00	H
ATOM	5125	HB3	PRO	354	-40.191	-2.953	0.359	0.00	H
ATOM	5126	CG	PRO	354	-42.000	-3.021	1.496	48.00	C
ATOM	5127	HG2	PRO	354	-42.426	-3.682	2.205	0.00	H
ATOM	5128	HG3	PRO	354	-41.745	-2.110	1.971	0.00	H
ATOM	5129	C	PRO	354	-41.698	-5.974	0.702	49.50	C
ATOM	5130	O	PRO	354	-42.726	-6.080	1.363	49.69	O
ATOM	5131	N	GLN	355	-40.826	-6.961	0.569	50.53	N
ATOM	5132	HN	GLN	355	-39.996	-6.805	0.017	0.00	H
ATOM	5133	CA	GLN	355	-41.047	-8.248	1.199	50.84	C
ATOM	5134	HA	GLN	355	-41.929	-8.208	1.784	0.00	H
ATOM	5135	CB	GLN	355	-41.200	-9.329	0.129	54.15	C
ATOM	5136	HB2	GLN	355	-40.366	-9.301	-0.523	0.00	H
ATOM	5137	HB3	GLN	355	-41.253	-10.280	0.593	0.00	H
ATOM	5138	CG	GLN	355	-42.444	-9.168	-0.719	59.06	C
ATOM	5139	HG2	GLN	355	-42.287	-8.403	-1.434	0.00	H
ATOM	5140	HG3	GLN	355	-42.652	-10.079	-1.217	0.00	H
ATOM	5141	CD	GLN	355	-43.660	-8.794	0.123	61.95	C
ATOM	5142	OE1	GLN	355	-43.946	-9.428	1.146	62.53	O
ATOM	5143	NE2	GLN	355	-44.380	-7.759	-0.303	63.47	N
ATOM	5144	HE21	GLN	355	-44.111	-7.269	-1.143	0.00	H
ATOM	5145	HE22	GLN	355	-45.195	-7.464	0.214	0.00	H
ATOM	5146	C	GLN	355	-39.910	-8.622	2.123	49.65	C
ATOM	5147	O	GLN	355	-38.762	-8.726	1.687	50.52	O
ATOM	5148	N	PRO	356	-40.206	-8.827	3.417	48.45	N
ATOM	5149	CD	PRO	356	-41.486	-8.699	4.132	47.66	C
ATOM	5150	HD2	PRO	356	-41.651	-7.683	4.381	0.00	H
ATOM	5151	HD3	PRO	356	-42.273	-9.043	3.512	0.00	H
ATOM	5152	CA	PRO	356	-39.129	-9.198	4.338	48.53	C
ATOM	5153	HA	PRO	356	-38.395	-8.435	4.348	0.00	H
ATOM	5154	CB	PRO	356	-39.839	-9.286	5.694	48.09	C
ATOM	5155	HB2	PRO	356	-39.408	-10.064	6.268	0.00	H
ATOM	5156	HB3	PRO	356	-39.732	-8.367	6.209	0.00	H
ATOM	5157	CG	PRO	356	-41.256	-9.570	5.330	47.83	C
ATOM	5158	HG2	PRO	356	-41.364	-10.600	5.108	0.00	H
ATOM	5159	HG3	PRO	356	-41.887	-9.316	6.142	0.00	H
ATOM	5160	C	PRO	356	-38.453	-10.505	3.930	48.13	C
ATOM	5161	O	PRO	356	-39.081	-11.404	3.389	47.78	O
ATOM	5162	N	GLU	357	-37.157	-10.588	4.172	49.09	N
ATOM	5163	HN	GLU	357	-36.692	-9.803	4.603	0.00	H
ATOM	5164	CA	GLU	357	-36.404	-11.779	3.830	50.66	C
ATOM	5165	HA	GLU	357	-37.073	-12.555	3.563	0.00	H
ATOM	5166	CB	GLU	357	-35.473	-11.493	2.653	52.19	C
ATOM	5167	HB2	GLU	357	-34.865	-10.656	2.879	0.00	H
ATOM	5168	HB3	GLU	357	-34.859	-12.337	2.475	0.00	H
ATOM	5169	CG	GLU	357	-36.200	-11.185	1.360	54.31	C
ATOM	5170	HG2	GLU	357	-36.734	-10.276	1.463	0.00	H
ATOM	5171	HG3	GLU	357	-35.497	-11.095	0.573	0.00	H
ATOM	5172	CD	GLU	357	-37.192	-12.270	0.980	54.95	C

ATOM	5173	OE1	GLU	357	-36.856	-13.470	1.108	55.71	O1-
ATOM	5174	OE2	GLU	357	-38.306	-11.919	0.542	56.29	O
ATOM	5175	C	GLU	357	-35.594	-12.258	5.030	50.70	C
ATOM	5176	O	GLU	357	-35.220	-11.468	5.907	50.70	O
ATOM	5177	N	TYR	358	-35.326	-13.557	5.064	49.65	N
ATOM	5178	HN	TYR	358	-35.655	-14.143	4.311	0.00	H
ATOM	5179	CA	TYR	358	-34.574	-14.138	6.159	49.66	C
ATOM	5180	HA	TYR	358	-34.187	-13.365	6.771	0.00	H
ATOM	5181	CB	TYR	358	-35.503	-15.024	6.974	47.09	C
ATOM	5182	HB2	TYR	358	-35.881	-15.799	6.359	0.00	H
ATOM	5183	HB3	TYR	358	-34.968	-15.446	7.785	0.00	H
ATOM	5184	CG	TYR	358	-36.676	-14.248	7.533	44.64	C
ATOM	5185	CD1	TYR	358	-36.537	-13.455	8.672	43.62	C
ATOM	5186	HD1	TYR	358	-35.590	-13.407	9.182	0.00	H
ATOM	5187	CE1	TYR	358	-37.611	-12.712	9.173	42.52	C
ATOM	5188	HE1	TYR	358	-37.482	-12.107	10.054	0.00	H
ATOM	5189	CD2	TYR	358	-37.919	-14.280	6.906	44.38	C
ATOM	5190	HD2	TYR	358	-38.063	-14.883	6.025	0.00	H
ATOM	5191	CE2	TYR	358	-38.996	-13.540	7.398	43.27	C
ATOM	5192	HE2	TYR	358	-39.949	-13.577	6.897	0.00	H
ATOM	5193	CZ	TYR	358	-38.835	-12.762	8.528	42.53	C
ATOM	5194	OH	TYR	358	-39.897	-12.036	9.008	43.88	O
ATOM	5195	HH	TYR	358	-39.624	-11.548	9.797	0.00	H
ATOM	5196	C	TYR	358	-33.391	-14.905	5.599	50.85	C
ATOM	5197	O	TYR	358	-32.605	-15.504	6.328	50.46	O
ATOM	5198	N	ASP	359	-33.281	-14.846	4.279	52.12	N
ATOM	5199	HN	ASP	359	-34.004	-14.331	3.798	0.00	H
ATOM	5200	CA	ASP	359	-32.205	-15.467	3.523	53.94	C
ATOM	5201	HA	ASP	359	-31.606	-16.049	4.174	0.00	H
ATOM	5202	CB	ASP	359	-32.791	-16.366	2.436	56.63	C
ATOM	5203	HB2	ASP	359	-33.386	-17.119	2.884	0.00	H
ATOM	5204	HB3	ASP	359	-33.388	-15.786	1.782	0.00	H
ATOM	5205	CG	ASP	359	-31.729	-17.056	1.599	58.73	C
ATOM	5206	OD1	ASP	359	-30.614	-16.500	1.447	60.55	O
ATOM	5207	OD2	ASP	359	-32.027	-18.155	1.078	59.74	O1-
ATOM	5208	C	ASP	359	-31.539	-14.258	2.878	54.43	C
ATOM	5209	O	ASP	359	-32.231	-13.371	2.390	54.30	O
ATOM	5210	N	LEU	360	-30.213	-14.208	2.868	55.08	N
ATOM	5211	HN	LEU	360	-29.678	-14.962	3.272	0.00	H
ATOM	5212	CA	LEU	360	-29.527	-13.063	2.273	55.15	C
ATOM	5213	HA	LEU	360	-30.016	-12.169	2.563	0.00	H
ATOM	5214	CB	LEU	360	-28.072	-13.008	2.741	55.17	C
ATOM	5215	HB2	LEU	360	-28.038	-13.072	3.798	0.00	H
ATOM	5216	HB3	LEU	360	-27.535	-13.819	2.321	0.00	H
ATOM	5217	CG	LEU	360	-27.313	-11.740	2.358	54.70	C
ATOM	5218	HG	LEU	360	-27.392	-11.583	1.314	0.00	H
ATOM	5219	CD1	LEU	360	-27.937	-10.589	3.112	55.46	C
ATOM	5220	HD11	LEU	360	-28.958	-10.503	2.844	0.00	H
ATOM	5221	HD12	LEU	360	-27.859	-10.766	4.153	0.00	H
ATOM	5222	HD13	LEU	360	-27.431	-9.691	2.867	0.00	H
ATOM	5223	CD2	LEU	360	-25.835	-11.859	2.697	54.32	C
ATOM	5224	HD21	LEU	360	-25.723	-12.018	3.738	0.00	H
ATOM	5225	HD22	LEU	360	-25.416	-12.676	2.168	0.00	H
ATOM	5226	HD23	LEU	360	-25.336	-10.967	2.420	0.00	H
ATOM	5227	C	LEU	360	-29.564	-13.119	0.751	55.50	C
ATOM	5228	O	LEU	360	-29.749	-12.102	0.078	55.66	O
ATOM	5229	N	GLU	361	-29.383	-14.318	0.215	55.85	N
ATOM	5230	HN	GLU	361	-29.240	-15.101	0.835	0.00	H
ATOM	5231	CA	GLU	361	-29.387	-14.521	-1.225	55.77	C
ATOM	5232	HA	GLU	361	-28.613	-13.947	-1.665	0.00	H
ATOM	5233	CB	GLU	361	-29.161	-16.000	-1.547	56.94	C
ATOM	5234	HB2	GLU	361	-29.982	-16.568	-1.193	0.00	H
ATOM	5235	HB3	GLU	361	-29.072	-16.124	-2.595	0.00	H
ATOM	5236	CG	GLU	361	-27.916	-16.608	-0.932	59.09	C
ATOM	5237	HG2	GLU	361	-27.097	-15.951	-1.070	0.00	H
ATOM	5238	HG3	GLU	361	-28.074	-16.763	0.104	0.00	H
ATOM	5239	CD	GLU	361	-27.558	-17.949	-1.563	59.95	C
ATOM	5240	OE1	GLU	361	-27.407	-18.001	-2.807	59.04	O1-
ATOM	5241	OE2	GLU	361	-27.422	-18.945	-0.819	60.29	O
ATOM	5242	C	GLU	361	-30.704	-14.073	-1.858	55.09	C
ATOM	5243	O	GLU	361	-30.742	-13.691	-3.029	53.73	O
ATOM	5244	N	LEU	362	-31.776	-14.117	-1.070	54.70	N
ATOM	5245	HN	LEU	362	-31.642	-14.410	-0.114	0.00	H
ATOM	5246	CA	LEU	362	-33.112	-13.760	-1.545	55.02	C
ATOM	5247	HA	LEU	362	-33.186	-13.970	-2.580	0.00	H

ATOM	5248	CB	LEU	362	-34.167	-14.568	-0.790	55.14	C
ATOM	5249	HB2	LEU	362	-33.893	-14.640	0.230	0.00	H
ATOM	5250	HB3	LEU	362	-35.106	-14.085	-0.870	0.00	H
ATOM	5251	CG	LEU	362	-34.351	-15.992	-1.306	54.72	C
ATOM	5252	HG	LEU	362	-33.415	-16.487	-1.317	0.00	H
ATOM	5253	CD1	LEU	362	-35.306	-16.756	-0.409	55.40	C
ATOM	5254	HD11	LEU	362	-34.914	-16.792	0.574	0.00	H
ATOM	5255	HD12	LEU	362	-36.246	-16.268	-0.397	0.00	H
ATOM	5256	HD13	LEU	362	-35.425	-17.742	-0.778	0.00	H
ATOM	5257	CD2	LEU	362	-34.872	-15.933	-2.729	53.93	C
ATOM	5258	HD21	LEU	362	-35.800	-15.423	-2.744	0.00	H
ATOM	5259	HD22	LEU	362	-34.176	-15.418	-3.339	0.00	H
ATOM	5260	HD23	LEU	362	-35.004	-16.917	-3.098	0.00	H
ATOM	5261	C	LEU	362	-33.482	-12.290	-1.489	55.20	C
ATOM	5262	O	LEU	362	-34.647	-11.940	-1.297	55.62	O
ATOM	5263	N	ILE	363	-32.488	-11.433	-1.656	54.87	N
ATOM	5264	HN	ILE	363	-31.557	-11.800	-1.787	0.00	H
ATOM	5265	CA	ILE	363	-32.708	-9.999	-1.654	53.74	C
ATOM	5266	HA	ILE	363	-33.748	-9.801	-1.682	0.00	H
ATOM	5267	CB	ILE	363	-32.114	-9.344	-0.383	52.76	C
ATOM	5268	HB	ILE	363	-31.083	-9.575	-0.316	0.00	H
ATOM	5269	CG2	ILE	363	-32.283	-7.832	-0.442	52.15	C
ATOM	5270	HG21	ILE	363	-31.780	-7.454	-1.294	0.00	H
ATOM	5271	HG22	ILE	363	-33.313	-7.594	-0.505	0.00	H
ATOM	5272	HG23	ILE	363	-31.873	-7.397	0.432	0.00	H
ATOM	5273	CG1	ILE	363	-32.797	-9.912	0.864	52.10	C
ATOM	5274	HG12	ILE	363	-33.825	-9.659	0.849	0.00	H
ATOM	5275	HG13	ILE	363	-32.692	-10.966	0.875	0.00	H
ATOM	5276	CD1	ILE	363	-32.227	-9.392	2.174	50.97	C
ATOM	5277	HD11	ILE	363	-31.201	-9.645	2.238	0.00	H
ATOM	5278	HD12	ILE	363	-32.334	-8.339	2.212	0.00	H
ATOM	5279	HD13	ILE	363	-32.750	-9.829	2.985	0.00	H
ATOM	5280	C	ILE	363	-32.002	-9.454	-2.888	54.14	C
ATOM	5281	O	ILE	363	-30.848	-9.797	-3.146	54.06	O
ATOM	5282	N	THR	364	-32.698	-8.636	-3.670	54.86	N
ATOM	5283	HN	THR	364	-33.657	-8.418	-3.445	0.00	H
ATOM	5284	CA	THR	364	-32.077	-8.055	-4.851	56.10	C
ATOM	5285	HA	THR	364	-31.093	-8.434	-4.955	0.00	H
ATOM	5286	CB	THR	364	-32.860	-8.388	-6.134	56.48	C
ATOM	5287	HB	THR	364	-33.806	-7.913	-6.104	0.00	H
ATOM	5288	OG1	THR	364	-33.027	-9.808	-6.231	57.50	O
ATOM	5289	HG1	THR	364	-33.519	-10.020	-7.036	0.00	H
ATOM	5290	CG2	THR	364	-32.094	-7.898	-7.369	55.82	C
ATOM	5291	HG21	THR	364	-31.961	-6.849	-7.308	0.00	H
ATOM	5292	HG22	THR	364	-31.148	-8.372	-7.409	0.00	H
ATOM	5293	HG23	THR	364	-32.644	-8.134	-8.242	0.00	H
ATOM	5294	C	THR	364	-31.928	-6.538	-4.727	56.40	C
ATOM	5295	O	THR	364	-32.905	-5.786	-4.774	56.52	O
ATOM	5296	N	SER	365	-30.683	-6.107	-4.551	56.19	N
ATOM	5297	HN	SER	365	-29.953	-6.802	-4.503	0.00	H
ATOM	5298	CA	SER	365	-30.354	-4.699	-4.429	57.01	C
ATOM	5299	HA	SER	365	-31.243	-4.125	-4.462	0.00	H
ATOM	5300	CB	SER	365	-29.639	-4.435	-3.106	57.43	C
ATOM	5301	HB2	SER	365	-30.279	-4.691	-2.302	0.00	H
ATOM	5302	HB3	SER	365	-28.759	-5.022	-3.057	0.00	H
ATOM	5303	OG	SER	365	-29.285	-3.067	-2.992	59.50	O
ATOM	5304	HG	SER	365	-28.834	-2.920	-2.149	0.00	H
ATOM	5305	C	SER	365	-29.454	-4.295	-5.595	57.18	C
ATOM	5306	O	SER	365	-28.552	-5.040	-5.988	56.99	O
ATOM	5307	N	CYS	366	-29.703	-3.110	-6.142	57.22	N
ATOM	5308	HN	CYS	366	-30.454	-2.555	-5.759	0.00	H
ATOM	5309	CA	CYS	366	-28.925	-2.606	-7.266	56.84	C
ATOM	5310	HA	CYS	366	-29.374	-1.722	-7.638	0.00	H
ATOM	5311	CB	CYS	366	-27.509	-2.250	-6.817	56.38	C
ATOM	5312	HB2	CYS	366	-27.104	-3.052	-6.256	0.00	H
ATOM	5313	HB3	CYS	366	-26.903	-2.073	-7.667	0.00	H
ATOM	5314	SG	CYS	366	-27.460	-0.782	-5.791	57.69	S
ATOM	5315	HG	CYS	366	-26.279	-0.545	-5.458	0.00	H
ATOM	5316	C	CYS	366	-28.864	-3.629	-8.382	56.34	C
ATOM	5317	O	CYS	366	-27.810	-3.849	-8.985	55.72	O
ATOM	5318	N	SER	367	-29.997	-4.264	-8.651	55.39	N
ATOM	5319	HN	SER	367	-30.828	-4.056	-8.119	0.00	H
ATOM	5320	CA	SER	367	-30.042	-5.254	-9.706	56.17	C
ATOM	5321	HA	SER	367	-31.028	-5.629	-9.797	0.00	H
ATOM	5322	CB	SER	367	-29.616	-4.606	-11.029	55.61	C

ATOM	5323	HB2	SER	367	-28.592	-4.340	-10.978	0.00	H
ATOM	5324	HB3	SER	367	-29.764	-5.292	-11.822	0.00	H
ATOM	5325	OG	SER	367	-30.369	-3.438	-11.301	54.28	O
ATOM	5326	HG	SER	367	-30.077	-3.054	-12.139	0.00	H
ATOM	5327	C	SER	367	-29.089	-6.403	-9.368	56.49	C
ATOM	5328	O	SER	367	-28.519	-7.029	-10.262	56.52	O
ATOM	5329	N	SER	368	-28.905	-6.667	-8.078	55.80	N
ATOM	5330	HN	SER	368	-29.396	-6.118	-7.388	0.00	H
ATOM	5331	CA	SER	368	-28.006	-7.735	-7.655	55.45	C
ATOM	5332	HA	SER	368	-27.952	-8.472	-8.414	0.00	H
ATOM	5333	CB	SER	368	-26.603	-7.185	-7.397	54.39	C
ATOM	5334	HB2	SER	368	-26.670	-6.315	-6.797	0.00	H
ATOM	5335	HB3	SER	368	-26.024	-7.916	-6.896	0.00	H
ATOM	5336	OG	SER	368	-25.955	-6.849	-8.606	54.11	O
ATOM	5337	HG	SER	368	-25.072	-6.505	-8.414	0.00	H
ATOM	5338	C	SER	368	-28.468	-8.471	-6.411	56.02	C
ATOM	5339	O	SER	368	-29.051	-7.886	-5.503	56.24	O
ATOM	5340	N	ASN	369	-28.204	-9.770	-6.388	56.73	N
ATOM	5341	HN	ASN	369	-27.753	-10.172	-7.196	0.00	H
ATOM	5342	CA	ASN	369	-28.543	-10.611	-5.249	56.39	C
ATOM	5343	HA	ASN	369	-29.018	-10.025	-4.506	0.00	H
ATOM	5344	CB	ASN	369	-29.494	-11.750	-5.650	56.26	C
ATOM	5345	HB2	ASN	369	-29.794	-12.281	-4.784	0.00	H
ATOM	5346	HB3	ASN	369	-30.347	-11.345	-6.129	0.00	H
ATOM	5347	CG	ASN	369	-28.851	-12.749	-6.610	56.64	C
ATOM	5348	OD1	ASN	369	-28.733	-12.495	-7.809	56.13	O
ATOM	5349	ND2	ASN	369	-28.424	-13.890	-6.076	57.25	N
ATOM	5350	HD21	ASN	369	-28.540	-14.059	-5.088	0.00	H
ATOM	5351	HD22	ASN	369	-27.984	-14.586	-6.659	0.00	H
ATOM	5352	C	ASN	369	-27.211	-11.196	-4.824	56.15	C
ATOM	5353	O	ASN	369	-26.232	-11.120	-5.571	55.96	O
ATOM	5354	N	VAL	370	-27.165	-11.760	-3.626	56.12	N
ATOM	5355	HN	VAL	370	-27.991	-11.760	-3.047	0.00	H
ATOM	5356	CA	VAL	370	-25.938	-12.375	-3.143	55.70	C
ATOM	5357	HA	VAL	370	-25.108	-11.949	-3.644	0.00	H
ATOM	5358	CB	VAL	370	-25.748	-12.162	-1.620	55.79	C
ATOM	5359	HB	VAL	370	-26.590	-12.543	-1.103	0.00	H
ATOM	5360	CG1	VAL	370	-24.516	-12.911	-1.137	55.60	C
ATOM	5361	HG11	VAL	370	-24.633	-13.945	-1.331	0.00	H
ATOM	5362	HG12	VAL	370	-23.661	-12.551	-1.648	0.00	H
ATOM	5363	HG13	VAL	370	-24.396	-12.759	-0.096	0.00	H
ATOM	5364	CG2	VAL	370	-25.603	-10.683	-1.317	54.73	C
ATOM	5365	HG21	VAL	370	-24.760	-10.298	-1.830	0.00	H
ATOM	5366	HG22	VAL	370	-26.474	-10.171	-1.634	0.00	H
ATOM	5367	HG23	VAL	370	-25.474	-10.547	-0.275	0.00	H
ATOM	5368	C	VAL	370	-26.058	-13.864	-3.435	55.36	C
ATOM	5369	O	VAL	370	-27.155	-14.425	-3.397	54.64	O
ATOM	5370	N	SER	371	-24.932	-14.496	-3.746	55.43	N
ATOM	5371	HN	SER	371	-24.074	-13.966	-3.776	0.00	H
ATOM	5372	CA	SER	371	-24.918	-15.923	-4.040	55.11	C
ATOM	5373	HA	SER	371	-25.709	-16.398	-3.520	0.00	H
ATOM	5374	CB	SER	371	-25.096	-16.153	-5.551	55.65	C
ATOM	5375	HB2	SER	371	-25.916	-15.581	-5.901	0.00	H
ATOM	5376	HB3	SER	371	-24.216	-15.856	-6.059	0.00	H
ATOM	5377	OG	SER	371	-25.345	-17.520	-5.847	55.49	O
ATOM	5378	HG	SER	371	-25.452	-17.629	-6.802	0.00	H
ATOM	5379	C	SER	371	-23.594	-16.518	-3.559	54.32	C
ATOM	5380	O	SER	371	-22.639	-15.793	-3.285	53.16	O
ATOM	5381	N	VAL	372	-23.535	-17.840	-3.466	54.30	N
ATOM	5382	HN	VAL	372	-24.341	-18.392	-3.717	0.00	H
ATOM	5383	CA	VAL	372	-22.318	-18.495	-3.005	54.17	C
ATOM	5384	HA	VAL	372	-21.616	-17.762	-2.701	0.00	H
ATOM	5385	CB	VAL	372	-22.629	-19.418	-1.814	51.56	C
ATOM	5386	HB	VAL	372	-23.061	-20.318	-2.168	0.00	H
ATOM	5387	CG1	VAL	372	-21.345	-19.803	-1.104	49.18	C
ATOM	5388	HG11	VAL	372	-20.707	-20.310	-1.780	0.00	H
ATOM	5389	HG12	VAL	372	-20.862	-18.930	-0.750	0.00	H
ATOM	5390	HG13	VAL	372	-21.570	-20.438	-0.287	0.00	H
ATOM	5391	CG2	VAL	372	-23.606	-18.724	-0.869	49.14	C
ATOM	5392	HG21	VAL	372	-23.175	-17.825	-0.514	0.00	H
ATOM	5393	HG22	VAL	372	-24.503	-18.505	-1.387	0.00	H
ATOM	5394	HG23	VAL	372	-23.818	-19.361	-0.050	0.00	H
ATOM	5395	C	VAL	372	-21.623	-19.302	-4.105	55.82	C
ATOM	5396	O	VAL	372	-22.167	-19.491	-5.199	55.88	O
ATOM	5397	N	ALA	373	-20.410	-19.755	-3.803	57.11	N

ATOM	5398	HN	ALA	373	-20.054	-19.521	-2.888	0.00	H
ATOM	5399	CA	ALA	373	-19.601	-20.554	-4.719	58.88	C
ATOM	5400	HA	ALA	373	-20.188	-21.342	-5.113	0.00	H
ATOM	5401	CB	ALA	373	-19.086	-19.693	-5.878	58.56	C
ATOM	5402	HB1	ALA	373	-19.908	-19.289	-6.410	0.00	H
ATOM	5403	HB2	ALA	373	-18.492	-18.905	-5.495	0.00	H
ATOM	5404	HB3	ALA	373	-18.503	-20.290	-6.529	0.00	H
ATOM	5405	C	ALA	373	-18.428	-21.139	-3.931	60.35	C
ATOM	5406	O	ALA	373	-18.381	-21.027	-2.702	60.01	O
ATOM	5407	N	HIS	374	-17.482	-21.756	-4.634	61.79	N
ATOM	5408	HN	HIS	374	-17.572	-21.807	-5.638	0.00	H
ATOM	5409	CA	HIS	374	-16.328	-22.353	-3.974	62.54	C
ATOM	5410	HA	HIS	374	-16.186	-21.896	-3.029	0.00	H
ATOM	5411	CB	HIS	374	-16.553	-23.851	-3.778	60.90	C
ATOM	5412	HB2	HIS	374	-16.954	-24.267	-4.665	0.00	H
ATOM	5413	HB3	HIS	374	-15.630	-24.320	-3.554	0.00	H
ATOM	5414	CG	HIS	374	-17.500	-24.171	-2.665	59.94	C
ATOM	5415	CD2	HIS	374	-18.792	-24.577	-2.678	59.79	C
ATOM	5416	HD2	HIS	374	-19.295	-24.743	-3.616	0.00	H
ATOM	5417	ND1	HIS	374	-17.150	-24.052	-1.337	59.81	N1+
ATOM	5418	HD1	HIS	374	-16.218	-23.758	-1.085	0.00	H
ATOM	5419	CE1	HIS	374	-18.185	-24.371	-0.579	59.49	C
ATOM	5420	HE1	HIS	374	-18.098	-24.336	0.494	0.00	H
ATOM	5421	NE2	HIS	374	-19.195	-24.693	-1.368	59.42	N
ATOM	5422	HE2	HIS	374	-20.137	-24.986	-1.154	0.00	H
ATOM	5423	C	HIS	374	-15.047	-22.127	-4.741	64.61	C
ATOM	5424	O	HIS	374	-15.025	-22.194	-5.969	65.37	O
ATOM	5425	N	ASP	375	-13.979	-21.852	-4.002	66.74	N
ATOM	5426	HN	ASP	375	-14.095	-21.808	-3.001	0.00	H
ATOM	5427	CA	ASP	375	-12.669	-21.617	-4.594	69.27	C
ATOM	5428	HA	ASP	375	-12.788	-21.256	-5.583	0.00	H
ATOM	5429	CB	ASP	375	-11.893	-20.585	-3.778	71.15	C
ATOM	5430	HB2	ASP	375	-11.014	-20.311	-4.301	0.00	H
ATOM	5431	HB3	ASP	375	-12.496	-19.728	-3.628	0.00	H
ATOM	5432	CG	ASP	375	-11.479	-21.115	-2.407	72.56	C
ATOM	5433	OD1	ASP	375	-12.343	-21.657	-1.673	71.33	O
ATOM	5434	OD2	ASP	375	-10.281	-20.980	-2.069	73.97	O1-
ATOM	5435	C	ASP	375	-11.907	-22.930	-4.583	70.41	C
ATOM	5436	O	ASP	375	-12.416	-23.947	-4.097	70.19	O
ATOM	5437	N	ALA	376	-10.686	-22.902	-5.109	71.29	N
ATOM	5438	HN	ALA	376	-10.339	-22.030	-5.478	0.00	H
ATOM	5439	CA	ALA	376	-9.853	-24.098	-5.159	72.41	C
ATOM	5440	HA	ALA	376	-10.202	-24.740	-5.926	0.00	H
ATOM	5441	CB	ALA	376	-8.400	-23.717	-5.448	72.80	C
ATOM	5442	HB1	ALA	376	-8.345	-23.217	-6.380	0.00	H
ATOM	5443	HB2	ALA	376	-8.044	-23.078	-4.682	0.00	H
ATOM	5444	HB3	ALA	376	-7.806	-24.593	-5.482	0.00	H
ATOM	5445	C	ALA	376	-9.963	-24.810	-3.817	73.03	C
ATOM	5446	O	ALA	376	-10.486	-25.926	-3.731	72.87	O
ATOM	5447	N	SER	377	-9.484	-24.136	-2.774	73.74	N
ATOM	5448	HN	SER	377	-9.084	-23.229	-2.964	0.00	H
ATOM	5449	CA	SER	377	-9.516	-24.649	-1.405	73.94	C
ATOM	5450	HA	SER	377	-8.700	-25.307	-1.255	0.00	H
ATOM	5451	CB	SER	377	-9.418	-23.485	-0.409	74.45	C
ATOM	5452	HB2	SER	377	-10.364	-23.017	-0.319	0.00	H
ATOM	5453	HB3	SER	377	-9.115	-23.854	0.536	0.00	H
ATOM	5454	OG	SER	377	-8.473	-22.514	-0.838	74.76	O
ATOM	5455	HG	SER	377	-8.434	-21.795	-0.192	0.00	H
ATOM	5456	C	SER	377	-10.823	-25.399	-1.157	73.96	C
ATOM	5457	O	SER	377	-10.834	-26.510	-0.614	74.50	O
ATOM	5458	N	GLY	378	-11.924	-24.777	-1.568	73.06	N
ATOM	5459	HN	GLY	378	-11.844	-23.874	-2.012	0.00	H
ATOM	5460	CA	GLY	378	-13.228	-25.381	-1.385	72.07	C
ATOM	5461	HA2	GLY	378	-13.758	-25.360	-2.301	0.00	H
ATOM	5462	HA3	GLY	378	-13.111	-26.384	-1.068	0.00	H
ATOM	5463	C	GLY	378	-14.020	-24.624	-0.341	71.07	C
ATOM	5464	O	GLY	378	-15.039	-25.107	0.153	70.67	O
ATOM	5465	N	LYS	379	-13.548	-23.429	0.001	70.50	N
ATOM	5466	HN	LYS	379	-12.702	-23.100	-0.439	0.00	H
ATOM	5467	CA	LYS	379	-14.226	-22.599	0.990	68.86	C
ATOM	5468	HA	LYS	379	-14.689	-23.219	1.713	0.00	H
ATOM	5469	CB	LYS	379	-13.218	-21.678	1.690	69.09	C
ATOM	5470	HB2	LYS	379	-12.498	-22.265	2.199	0.00	H
ATOM	5471	HB3	LYS	379	-12.734	-21.072	0.969	0.00	H
ATOM	5472	CG	LYS	379	-13.831	-20.739	2.718	69.21	C

ATOM	5473	HG2	LYS	379	-13.095	-20.056	3.056	0.00	H
ATOM	5474	HG3	LYS	379	-14.631	-20.205	2.275	0.00	H
ATOM	5475	CD	LYS	379	-14.373	-21.486	3.928	69.90	C
ATOM	5476	HD2	LYS	379	-15.160	-22.126	3.624	0.00	H
ATOM	5477	HD3	LYS	379	-13.598	-22.061	4.364	0.00	H
ATOM	5478	CE	LYS	379	-14.907	-20.504	4.969	71.11	C
ATOM	5479	HE2	LYS	379	-14.140	-19.826	5.240	0.00	H
ATOM	5480	HE3	LYS	379	-15.725	-19.968	4.562	0.00	H
ATOM	5481	NZ	LYS	379	-15.387	-21.155	6.227	71.82	N1+
ATOM	5482	HZ1	LYS	379	-16.136	-21.796	6.010	0.00	H
ATOM	5483	HZ2	LYS	379	-14.626	-21.660	6.656	0.00	H
ATOM	5484	HZ3	LYS	379	-15.723	-20.449	6.864	0.00	H
ATOM	5485	C	LYS	379	-15.316	-21.767	0.310	67.43	C
ATOM	5486	O	LYS	379	-15.180	-21.366	-0.852	65.77	O
ATOM	5487	N	ARG	380	-16.399	-21.526	1.043	66.88	N
ATOM	5488	HN	ARG	380	-16.424	-21.907	1.977	0.00	H
ATOM	5489	CA	ARG	380	-17.526	-20.743	0.544	65.90	C
ATOM	5490	HA	ARG	380	-17.918	-21.203	-0.326	0.00	H
ATOM	5491	CB	ARG	380	-18.625	-20.664	1.610	67.93	C
ATOM	5492	HB2	ARG	380	-18.277	-20.098	2.434	0.00	H
ATOM	5493	HB3	ARG	380	-19.483	-20.199	1.199	0.00	H
ATOM	5494	CG	ARG	380	-19.059	-22.014	2.144	71.41	C
ATOM	5495	HG2	ARG	380	-19.753	-22.452	1.474	0.00	H
ATOM	5496	HG3	ARG	380	-18.213	-22.644	2.239	0.00	H
ATOM	5497	CD	ARG	380	-19.720	-21.892	3.505	75.22	C
ATOM	5498	HD2	ARG	380	-19.664	-22.822	4.009	0.00	H
ATOM	5499	HD3	ARG	380	-19.222	-21.151	4.074	0.00	H
ATOM	5500	NE	ARG	380	-21.129	-21.516	3.424	78.35	N1+
ATOM	5501	HE	ARG	380	-21.551	-21.331	2.526	0.00	H
ATOM	5502	CZ	ARG	380	-21.934	-21.393	4.479	79.46	C
ATOM	5503	NH1	ARG	380	-21.469	-21.612	5.707	78.96	N
ATOM	5504	HH11	ARG	380	-22.082	-21.518	6.503	0.00	H
ATOM	5505	HH12	ARG	380	-20.504	-21.872	5.842	0.00	H
ATOM	5506	NH2	ARG	380	-23.211	-21.068	4.306	79.52	N
ATOM	5507	HH21	ARG	380	-23.821	-20.975	5.105	0.00	H
ATOM	5508	HH22	ARG	380	-23.571	-20.914	3.376	0.00	H
ATOM	5509	C	ARG	380	-17.044	-19.337	0.215	64.30	C
ATOM	5510	O	ARG	380	-16.448	-18.666	1.058	64.44	O
ATOM	5511	N	VAL	381	-17.293	-18.895	-1.011	62.12	N
ATOM	5512	HN	VAL	381	-17.772	-19.504	-1.657	0.00	H
ATOM	5513	CA	VAL	381	-16.889	-17.559	-1.432	58.77	C
ATOM	5514	HA	VAL	381	-16.477	-17.038	-0.607	0.00	H
ATOM	5515	CB	VAL	381	-15.830	-17.608	-2.552	58.49	C
ATOM	5516	HB	VAL	381	-16.215	-18.148	-3.378	0.00	H
ATOM	5517	CG1	VAL	381	-15.508	-16.196	-3.048	55.90	C
ATOM	5518	HG11	VAL	381	-16.388	-15.746	-3.427	0.00	H
ATOM	5519	HG12	VAL	381	-15.133	-15.617	-2.245	0.00	H
ATOM	5520	HG13	VAL	381	-14.780	-16.249	-3.816	0.00	H
ATOM	5521	CG2	VAL	381	-14.577	-18.298	-2.034	58.07	C
ATOM	5522	HG21	VAL	381	-14.193	-17.758	-1.208	0.00	H
ATOM	5523	HG22	VAL	381	-14.817	-19.284	-1.731	0.00	H
ATOM	5524	HG23	VAL	381	-13.849	-18.332	-2.803	0.00	H
ATOM	5525	C	VAL	381	-18.106	-16.813	-1.936	57.06	C
ATOM	5526	O	VAL	381	-18.680	-17.161	-2.967	56.79	O
ATOM	5527	N	TYR	382	-18.510	-15.797	-1.189	55.52	N
ATOM	5528	HN	TYR	382	-18.006	-15.580	-0.342	0.00	H
ATOM	5529	CA	TYR	382	-19.659	-15.001	-1.572	53.75	C
ATOM	5530	HA	TYR	382	-20.424	-15.637	-1.936	0.00	H
ATOM	5531	CB	TYR	382	-20.176	-14.232	-0.371	51.09	C
ATOM	5532	HB2	TYR	382	-19.391	-13.653	0.042	0.00	H
ATOM	5533	HB3	TYR	382	-20.965	-13.593	-0.674	0.00	H
ATOM	5534	CG	TYR	382	-20.702	-15.133	0.711	49.77	C
ATOM	5535	CD1	TYR	382	-22.032	-15.533	0.720	48.76	C
ATOM	5536	HD1	TYR	382	-22.700	-15.200	-0.057	0.00	H
ATOM	5537	CE1	TYR	382	-22.524	-16.362	1.721	49.40	C
ATOM	5538	HE1	TYR	382	-23.559	-16.659	1.714	0.00	H
ATOM	5539	CD2	TYR	382	-19.869	-15.589	1.728	49.68	C
ATOM	5540	HD2	TYR	382	-18.832	-15.298	1.746	0.00	H
ATOM	5541	CE2	TYR	382	-20.350	-16.420	2.730	49.84	C
ATOM	5542	HE2	TYR	382	-19.689	-16.764	3.507	0.00	H
ATOM	5543	CZ	TYR	382	-21.678	-16.803	2.726	49.63	C
ATOM	5544	OH	TYR	382	-22.156	-17.617	3.731	50.39	O
ATOM	5545	HH	TYR	382	-23.097	-17.786	3.589	0.00	H
ATOM	5546	C	TYR	382	-19.247	-14.047	-2.677	53.82	C
ATOM	5547	O	TYR	382	-18.097	-13.605	-2.733	53.69	O

ATOM	5548	N	TYR	383	-20.188	-13.756	-3.566	53.80	N
ATOM	5549	HN	TYR	383	-21.097	-14.178	-3.447	0.00	H
ATOM	5550	CA	TYR	383	-19.944	-12.862	-4.682	53.65	C
ATOM	5551	HA	TYR	383	-19.276	-12.097	-4.382	0.00	H
ATOM	5552	CB	TYR	383	-19.327	-13.622	-5.862	54.98	C
ATOM	5553	HB2	TYR	383	-19.113	-12.943	-6.646	0.00	H
ATOM	5554	HB3	TYR	383	-18.432	-14.093	-5.549	0.00	H
ATOM	5555	CG	TYR	383	-20.205	-14.712	-6.459	56.20	C
ATOM	5556	CD1	TYR	383	-20.666	-15.774	-5.675	56.67	C
ATOM	5557	HD1	TYR	383	-20.406	-15.825	-4.631	0.00	H
ATOM	5558	CE1	TYR	383	-21.466	-16.784	-6.218	55.99	C
ATOM	5559	HE1	TYR	383	-21.810	-17.592	-5.595	0.00	H
ATOM	5560	CD2	TYR	383	-20.566	-14.686	-7.811	56.16	C
ATOM	5561	HD2	TYR	383	-20.228	-13.882	-8.443	0.00	H
ATOM	5562	CE2	TYR	383	-21.366	-15.694	-8.365	56.64	C
ATOM	5563	HE2	TYR	383	-21.632	-15.658	-9.408	0.00	H
ATOM	5564	CZ	TYR	383	-21.811	-16.737	-7.559	55.69	C
ATOM	5565	OH	TYR	383	-22.607	-17.722	-8.093	54.62	O
ATOM	5566	HH	TYR	383	-22.834	-18.362	-7.404	0.00	H
ATOM	5567	C	TYR	383	-21.265	-12.243	-5.097	53.44	C
ATOM	5568	O	TYR	383	-22.337	-12.757	-4.756	53.58	O
ATOM	5569	N	LEU	384	-21.184	-11.137	-5.827	51.37	N
ATOM	5570	HN	LEU	384	-20.272	-10.779	-6.069	0.00	H
ATOM	5571	CA	LEU	384	-22.375	-10.446	-6.275	49.25	C
ATOM	5572	HA	LEU	384	-23.198	-10.736	-5.675	0.00	H
ATOM	5573	CB	LEU	384	-22.175	-8.940	-6.159	50.20	C
ATOM	5574	HB2	LEU	384	-21.532	-8.731	-5.344	0.00	H
ATOM	5575	HB3	LEU	384	-21.743	-8.571	-7.053	0.00	H
ATOM	5576	CG	LEU	384	-23.483	-8.194	-5.928	51.86	C
ATOM	5577	HG	LEU	384	-24.247	-8.631	-6.517	0.00	H
ATOM	5578	CD1	LEU	384	-23.833	-8.301	-4.449	52.23	C
ATOM	5579	HD11	LEU	384	-23.943	-9.321	-4.185	0.00	H
ATOM	5580	HD12	LEU	384	-23.059	-7.868	-3.871	0.00	H
ATOM	5581	HD13	LEU	384	-24.741	-7.789	-4.263	0.00	H
ATOM	5582	CD2	LEU	384	-23.346	-6.738	-6.342	52.86	C
ATOM	5583	HD21	LEU	384	-22.582	-6.279	-5.770	0.00	H
ATOM	5584	HD22	LEU	384	-23.097	-6.685	-7.370	0.00	H
ATOM	5585	HD23	LEU	384	-24.263	-6.236	-6.175	0.00	H
ATOM	5586	C	LEU	384	-22.704	-10.810	-7.718	47.89	C
ATOM	5587	O	LEU	384	-21.831	-10.785	-8.589	46.57	O
ATOM	5588	N	THR	385	-23.972	-11.133	-7.967	46.20	N
ATOM	5589	HN	THR	385	-24.626	-11.111	-7.199	0.00	H
ATOM	5590	CA	THR	385	-24.427	-11.511	-9.304	44.71	C
ATOM	5591	HA	THR	385	-23.795	-11.069	-10.030	0.00	H
ATOM	5592	CB	THR	385	-24.391	-13.056	-9.479	43.67	C
ATOM	5593	HB	THR	385	-23.388	-13.394	-9.430	0.00	H
ATOM	5594	OG1	THR	385	-24.939	-13.415	-10.753	42.91	O
ATOM	5595	HG1	THR	385	-24.914	-14.376	-10.855	0.00	H
ATOM	5596	CG2	THR	385	-25.194	-13.729	-8.382	42.52	C
ATOM	5597	HG21	THR	385	-24.783	-13.478	-7.439	0.00	H
ATOM	5598	HG22	THR	385	-26.199	-13.399	-8.428	0.00	H
ATOM	5599	HG23	THR	385	-25.161	-14.779	-8.514	0.00	H
ATOM	5600	C	THR	385	-25.847	-11.004	-9.590	43.55	C
ATOM	5601	O	THR	385	-26.417	-10.258	-8.793	42.03	O
ATOM	5602	N	ARG	386	-26.404	-11.419	-10.729	43.20	N
ATOM	5603	HN	ARG	386	-25.860	-12.030	-11.319	0.00	H
ATOM	5604	CA	ARG	386	-27.751	-11.020	-11.134	43.34	C
ATOM	5605	HA	ARG	386	-28.431	-11.227	-10.349	0.00	H
ATOM	5606	CB	ARG	386	-27.784	-9.523	-11.445	43.77	C
ATOM	5607	HB2	ARG	386	-28.754	-9.252	-11.773	0.00	H
ATOM	5608	HB3	ARG	386	-27.541	-8.976	-10.572	0.00	H
ATOM	5609	CG	ARG	386	-26.805	-9.080	-12.535	44.27	C
ATOM	5610	HG2	ARG	386	-25.826	-9.034	-12.133	0.00	H
ATOM	5611	HG3	ARG	386	-26.826	-9.776	-13.333	0.00	H
ATOM	5612	CD	ARG	386	-27.170	-7.707	-13.080	44.60	C
ATOM	5613	HD2	ARG	386	-27.291	-7.029	-12.276	0.00	H
ATOM	5614	HD3	ARG	386	-26.398	-7.364	-13.718	0.00	H
ATOM	5615	NE	ARG	386	-28.417	-7.739	-13.845	45.20	N1+
ATOM	5616	HE	ARG	386	-28.848	-8.623	-14.070	0.00	H
ATOM	5617	CZ	ARG	386	-29.059	-6.660	-14.289	44.92	C
ATOM	5618	NH1	ARG	386	-28.587	-5.446	-14.049	43.80	N
ATOM	5619	HH11	ARG	386	-29.082	-4.636	-14.390	0.00	H
ATOM	5620	HH12	ARG	386	-27.732	-5.331	-13.525	0.00	H
ATOM	5621	NH2	ARG	386	-30.176	-6.796	-14.989	45.23	N
ATOM	5622	HH21	ARG	386	-30.663	-5.979	-15.326	0.00	H

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ATOM   5623 HH22 ARG   386     -30.539  -7.717 -15.185        0.00           H
ATOM   5624  C   ARG   386     -28.239 -11.773 -12.368       43.36           C
ATOM   5625  O   ARG   386     -27.466 -12.467 -13.024       43.38           O
ATOM   5626  N   ASP   387     -29.529 -11.630 -12.674       42.64           N
ATOM   5627  HN  ASP   387     -30.102 -11.072 -12.058        0.00           H
ATOM   5628  CA  ASP   387     -30.118 -12.249 -13.855       42.39           C
ATOM   5629  HA  ASP   387     -29.983 -13.298 -13.808        0.00           H
ATOM   5630  CB  ASP   387     -31.614 -11.943 -13.928       44.89           C
ATOM   5631  HB2 ASP   387     -32.074 -12.209 -13.012        0.00           H
ATOM   5632  HB3 ASP   387     -31.754 -10.909 -14.107        0.00           H
ATOM   5633  CG  ASP   387     -32.318 -12.711 -15.045       48.22           C
ATOM   5634  OD1 ASP   387     -31.804 -12.703 -16.187       49.38           O
ATOM   5635  OD2 ASP   387     -33.387 -13.318 -14.780       47.88           O1-
ATOM   5636  C   ASP   387     -29.403 -11.592 -15.034       42.07           C
ATOM   5637  O   ASP   387     -29.631 -10.425 -15.339       41.36           O
ATOM   5638  N   PRO   388     -28.545 -12.348 -15.724       41.73           N
ATOM   5639  CD  PRO   388     -28.438 -13.806 -15.546       42.32           C
ATOM   5640  HD2 PRO   388     -27.850 -14.015 -14.690        0.00           H
ATOM   5641  HD3 PRO   388     -29.405 -14.218 -15.419        0.00           H
ATOM   5642  CA  PRO   388     -27.746 -11.915 -16.874       42.19           C
ATOM   5643  HA  PRO   388     -27.157 -11.079 -16.600        0.00           H
ATOM   5644  CB  PRO   388     -26.852 -13.118 -17.125       41.82           C
ATOM   5645  HB2 PRO   388     -26.513 -13.103 -18.128        0.00           H
ATOM   5646  HB3 PRO   388     -26.020 -13.082 -16.471        0.00           H
ATOM   5647  CG  PRO   388     -27.776 -14.243 -16.836       41.95           C
ATOM   5648  HG2 PRO   388     -28.464 -14.349 -17.634        0.00           H
ATOM   5649  HG3 PRO   388     -27.220 -15.138 -16.728        0.00           H
ATOM   5650  C   PRO   388     -28.462 -11.478 -18.148       43.54           C
ATOM   5651  O   PRO   388     -27.802 -11.076 -19.112       44.59           O
ATOM   5652  N   THR   389     -29.791 -11.544 -18.166       43.35           N
ATOM   5653  HN  THR   389     -30.287 -11.853 -17.344        0.00           H
ATOM   5654  CA  THR   389     -30.531 -11.172 -19.368       43.07           C
ATOM   5655  HA  THR   389     -30.291 -11.843 -20.152        0.00           H
ATOM   5656  CB  THR   389     -32.054 -11.219 -19.140       43.08           C
ATOM   5657  HB  THR   389     -32.331 -10.464 -18.451        0.00           H
ATOM   5658  OG1 THR   389     -32.415 -12.506 -18.626       44.14           O
ATOM   5659  HG1 THR   389     -33.371 -12.539 -18.482        0.00           H
ATOM   5660  CG2 THR   389     -32.801 -10.990 -20.455       40.77           C
ATOM   5661 HG21 THR   389     -32.542 -10.041 -20.848        0.00           H
ATOM   5662 HG22 THR   389     -32.534 -11.744 -21.149        0.00           H
ATOM   5663 HG23 THR   389     -33.845 -11.026 -20.279        0.00           H
ATOM   5664  C   THR   389     -30.161  -9.796 -19.906       43.81           C
ATOM   5665  O   THR   389     -29.480  -9.687 -20.932       43.75           O
ATOM   5666  N   THR   390     -30.605  -8.748 -19.218       43.71           N
ATOM   5667  HN  THR   390     -31.145  -8.904 -18.380        0.00           H
ATOM   5668  CA  THR   390     -30.321  -7.391 -19.659       43.31           C
ATOM   5669  HA  THR   390     -30.857  -7.190 -20.550        0.00           H
ATOM   5670  CB  THR   390     -30.735  -6.360 -18.596       42.97           C
ATOM   5671  HB  THR   390     -30.119  -6.468 -17.741        0.00           H
ATOM   5672  OG1 THR   390     -32.103  -6.579 -18.220       41.31           O
ATOM   5673  HG1 THR   390     -32.361  -5.930 -17.552        0.00           H
ATOM   5674  CG2 THR   390     -30.581  -4.951 -19.148       39.81           C
ATOM   5675 HG21 THR   390     -29.570  -4.786 -19.418        0.00           H
ATOM   5676 HG22 THR   390     -31.197  -4.837 -20.002        0.00           H
ATOM   5677 HG23 THR   390     -30.868  -4.249 -18.409        0.00           H
ATOM   5678  C   THR   390     -28.833  -7.243 -19.965       44.33           C
ATOM   5679  O   THR   390     -28.451  -6.724 -21.012       44.12           O
ATOM   5680  N   PRO   391     -27.884  -7.682 -19.045       44.79           N
ATOM   5681  CD  PRO   391     -28.014  -8.025 -17.633       44.15           C
ATOM   5682  HD2 PRO   391     -28.543  -7.266 -17.080        0.00           H
ATOM   5683  HD3 PRO   391     -28.539  -8.960 -17.518        0.00           H
ATOM   5684  CA  PRO   391     -26.461  -7.679 -19.434       45.70           C
ATOM   5685  HA  PRO   391     -26.157  -6.639 -19.421        0.00           H
ATOM   5686  CB  PRO   391     -25.782  -8.459 -18.314       44.67           C
ATOM   5687  HB2 PRO   391     -25.829  -9.539 -18.489        0.00           H
ATOM   5688  HB3 PRO   391     -24.726  -8.210 -18.203        0.00           H
ATOM   5689  CG  PRO   391     -26.600  -8.106 -17.098       44.54           C
ATOM   5690  HG2 PRO   391     -26.502  -8.828 -16.284        0.00           H
ATOM   5691  HG3 PRO   391     -26.292  -7.127 -16.715        0.00           H
ATOM   5692  C   PRO   391     -25.951  -8.260 -20.773       47.47           C
ATOM   5693  O   PRO   391     -24.931  -7.821 -21.304       48.24           O
ATOM   5694  N   LEU   392     -26.581  -9.400 -21.187       48.88           N
ATOM   5695  HN  LEU   392     -27.459  -9.672 -20.732        0.00           H
ATOM   5696  CA  LEU   392     -26.129 -10.182 -22.322       50.06           C
ATOM   5697  HA  LEU   392     -25.096  -9.962 -22.553        0.00           H
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ATOM	5698	CB	LEU	392	-26.344	-11.689	-22.094	50.29	C
ATOM	5699	HB2	LEU	392	-27.410	-11.866	-21.913	0.00	H
ATOM	5700	HB3	LEU	392	-26.119	-12.223	-23.022	0.00	H
ATOM	5701	CG	LEU	392	-25.542	-12.354	-20.969	50.05	C
ATOM	5702	HG	LEU	392	-25.771	-11.870	-20.018	0.00	H
ATOM	5703	CD1	LEU	392	-25.922	-13.831	-20.862	48.80	C
ATOM	5704	HD11	LEU	392	-26.993	-13.947	-20.668	0.00	H
ATOM	5705	HD12	LEU	392	-25.686	-14.373	-21.783	0.00	H
ATOM	5706	HD13	LEU	392	-25.384	-14.315	-20.040	0.00	H
ATOM	5707	CD2	LEU	392	-24.048	-12.225	-21.182	51.21	C
ATOM	5708	HD21	LEU	392	-23.747	-12.563	-22.178	0.00	H
ATOM	5709	HD22	LEU	392	-23.759	-11.181	-21.060	0.00	H
ATOM	5710	HD23	LEU	392	-23.497	-12.811	-20.439	0.00	H
ATOM	5711	C	LEU	392	-26.978	-9.861	-23.566	51.23	C
ATOM	5712	O	LEU	392	-26.801	-10.419	-24.646	50.97	O
ATOM	5713	N	ALA	393	-27.932	-8.921	-23.342	52.75	N
ATOM	5714	HN	ALA	393	-28.030	-8.591	-22.381	0.00	H
ATOM	5715	CA	ALA	393	-28.883	-8.424	-24.341	53.52	C
ATOM	5716	HA	ALA	393	-28.782	-9.021	-25.242	0.00	H
ATOM	5717	CB	ALA	393	-30.315	-8.481	-23.863	52.90	C
ATOM	5718	HB1	ALA	393	-30.598	-9.504	-23.605	0.00	H
ATOM	5719	HB2	ALA	393	-30.473	-7.848	-22.986	0.00	H
ATOM	5720	HB3	ALA	393	-30.996	-8.130	-24.642	0.00	H
ATOM	5721	C	ALA	393	-28.519	-6.998	-24.705	53.80	C
ATOM	5722	O	ALA	393	-28.763	-6.534	-25.816	53.81	O
ATOM	5723	N	ARG	394	-27.948	-6.287	-23.684	54.52	N
ATOM	5724	HN	ARG	394	-27.871	-6.724	-22.762	0.00	H
ATOM	5725	CA	ARG	394	-27.295	-5.025	-23.929	56.11	C
ATOM	5726	HA	ARG	394	-27.902	-4.422	-24.590	0.00	H
ATOM	5727	CB	ARG	394	-26.934	-4.276	-22.648	54.59	C
ATOM	5728	HB2	ARG	394	-26.489	-4.959	-21.917	0.00	H
ATOM	5729	HB3	ARG	394	-26.171	-3.524	-22.866	0.00	H
ATOM	5730	CG	ARG	394	-28.127	-3.558	-22.039	53.18	C
ATOM	5731	HG2	ARG	394	-28.512	-2.834	-22.759	0.00	H
ATOM	5732	HG3	ARG	394	-28.937	-4.261	-21.833	0.00	H
ATOM	5733	CD	ARG	394	-27.762	-2.808	-20.767	52.91	C
ATOM	5734	HD2	ARG	394	-27.483	-3.507	-19.978	0.00	H
ATOM	5735	HD3	ARG	394	-26.924	-2.138	-20.972	0.00	H
ATOM	5736	NE	ARG	394	-28.906	-2.008	-20.300	53.19	N1+
ATOM	5737	HE	ARG	394	-29.812	-2.204	-20.712	0.00	H
ATOM	5738	CZ	ARG	394	-28.815	-0.933	-19.499	53.10	C
ATOM	5739	NH1	ARG	394	-27.680	-0.596	-18.889	53.23	N
ATOM	5740	HH11	ARG	394	-27.640	0.237	-18.308	0.00	H
ATOM	5741	HH12	ARG	394	-26.840	-1.151	-18.971	0.00	H
ATOM	5742	NH2	ARG	394	-29.893	-0.177	-19.315	52.78	N
ATOM	5743	HH21	ARG	394	-29.871	0.709	-18.814	0.00	H
ATOM	5744	HH22	ARG	394	-30.775	-0.447	-19.723	0.00	H
ATOM	5745	C	ARG	394	-26.016	-5.333	-24.657	57.71	C
ATOM	5746	O	ARG	394	-25.433	-4.477	-25.319	58.08	O
ATOM	5747	N	ALA	395	-25.550	-6.598	-24.445	59.20	N
ATOM	5748	HN	ALA	395	-26.101	-7.223	-23.855	0.00	H
ATOM	5749	CA	ALA	395	-24.338	-7.039	-25.068	60.51	C
ATOM	5750	HA	ALA	395	-23.605	-6.242	-25.020	0.00	H
ATOM	5751	CB	ALA	395	-23.774	-8.283	-24.432	60.81	C
ATOM	5752	HB1	ALA	395	-23.610	-8.138	-23.365	0.00	H
ATOM	5753	HB2	ALA	395	-24.426	-9.145	-24.576	0.00	H
ATOM	5754	HB3	ALA	395	-22.811	-8.534	-24.870	0.00	H
ATOM	5755	C	ALA	395	-24.609	-7.320	-26.535	61.55	C
ATOM	5756	O	ALA	395	-23.710	-7.219	-27.369	61.71	O
ATOM	5757	N	ALA	396	-25.833	-7.849	-26.858	62.92	N
ATOM	5758	HN	ALA	396	-26.550	-7.875	-26.139	0.00	H
ATOM	5759	CA	ALA	396	-26.083	-8.343	-28.207	64.22	C
ATOM	5760	HA	ALA	396	-25.223	-8.945	-28.501	0.00	H
ATOM	5761	CB	ALA	396	-27.324	-9.223	-28.239	63.65	C
ATOM	5762	HB1	ALA	396	-27.243	-10.043	-27.521	0.00	H
ATOM	5763	HB2	ALA	396	-28.223	-8.650	-27.994	0.00	H
ATOM	5764	HB3	ALA	396	-27.471	-9.659	-29.231	0.00	H
ATOM	5765	C	ALA	396	-26.215	-7.257	-29.302	65.65	C
ATOM	5766	O	ALA	396	-26.273	-7.553	-30.495	66.69	O
ATOM	5767	N	TRP	397	-26.362	-5.974	-28.827	67.00	N
ATOM	5768	HN	TRP	397	-26.273	-5.848	-27.820	0.00	H
ATOM	5769	CA	TRP	397	-26.501	-4.799	-29.678	68.53	C
ATOM	5770	HA	TRP	397	-27.091	-5.103	-30.541	0.00	H
ATOM	5771	CB	TRP	397	-27.203	-3.661	-28.931	68.71	C
ATOM	5772	HB2	TRP	397	-27.923	-4.076	-28.223	0.00	H

ATOM	5773	HB3	TRP	397	-26.486	-3.097	-28.332	0.00	H
ATOM	5774	CG	TRP	397	-27.955	-2.708	-29.830	69.95	C
ATOM	5775	CD2	TRP	397	-29.253	-2.914	-30.412	70.00	C
ATOM	5776	CE2	TRP	397	-29.547	-1.791	-31.193	69.38	C
ATOM	5777	CE3	TRP	397	-30.201	-3.954	-30.345	69.70	C
ATOM	5778	HE3	TRP	397	-30.016	-4.824	-29.728	0.00	H
ATOM	5779	CD1	TRP	397	-27.527	-1.452	-30.241	69.15	C
ATOM	5780	HD1	TRP	397	-26.614	-0.913	-30.032	0.00	H
ATOM	5781	NE1	TRP	397	-28.486	-0.918	-31.068	69.60	N
ATOM	5782	HE1	TRP	397	-28.425	-0.009	-31.521	0.00	H
ATOM	5783	CZ2	TRP	397	-30.734	-1.668	-31.930	69.28	C
ATOM	5784	HZ2	TRP	397	-30.943	-0.785	-32.526	0.00	H
ATOM	5785	CZ3	TRP	397	-31.398	-3.843	-31.067	70.13	C
ATOM	5786	HZ3	TRP	397	-32.134	-4.637	-30.997	0.00	H
ATOM	5787	CH2	TRP	397	-31.657	-2.717	-31.853	69.88	C
ATOM	5788	HH2	TRP	397	-32.593	-2.647	-32.400	0.00	H
ATOM	5789	C	TRP	397	-25.168	-4.290	-30.241	69.95	C
ATOM	5790	O	TRP	397	-25.146	-3.568	-31.235	70.03	O
ATOM	5791	N	GLU	398	-24.052	-4.564	-29.485	71.41	N
ATOM	5792	HN	GLU	398	-24.124	-5.254	-28.735	0.00	H
ATOM	5793	CA	GLU	398	-22.805	-3.820	-29.662	72.92	C
ATOM	5794	HA	GLU	398	-22.875	-3.264	-30.594	0.00	H
ATOM	5795	CB	GLU	398	-22.624	-2.792	-28.539	71.82	C
ATOM	5796	HB2	GLU	398	-22.939	-3.231	-27.589	0.00	H
ATOM	5797	HB3	GLU	398	-21.568	-2.534	-28.422	0.00	H
ATOM	5798	CG	GLU	398	-23.406	-1.503	-28.849	72.08	C
ATOM	5799	HG2	GLU	398	-22.757	-0.843	-29.434	0.00	H
ATOM	5800	HG3	GLU	398	-24.259	-1.733	-29.495	0.00	H
ATOM	5801	CD	GLU	398	-24.038	-0.650	-27.763	72.38	C
ATOM	5802	OE1	GLU	398	-24.117	-1.108	-26.591	72.90	O1-
ATOM	5803	OE2	GLU	398	-24.497	0.463	-28.174	72.87	O
ATOM	5804	C	GLU	398	-21.604	-4.738	-29.945	74.71	C
ATOM	5805	O	GLU	398	-20.435	-4.357	-29.979	74.48	O
ATOM	5806	N	THR	399	-22.000	-5.979	-30.399	77.06	N
ATOM	5807	HN	THR	399	-22.977	-6.211	-30.212	0.00	H
ATOM	5808	CA	THR	399	-21.382	-6.609	-31.557	79.31	C
ATOM	5809	HA	THR	399	-20.316	-6.373	-31.562	0.00	H
ATOM	5810	CB	THR	399	-21.627	-8.136	-31.634	79.04	C
ATOM	5811	HB	THR	399	-22.699	-8.349	-31.688	0.00	H
ATOM	5812	OG1	THR	399	-21.136	-8.819	-30.475	79.59	O
ATOM	5813	HG1	THR	399	-21.517	-8.324	-29.718	0.00	H
ATOM	5814	CG2	THR	399	-20.953	-8.780	-32.841	78.69	C
ATOM	5815	HG21	THR	399	-21.388	-8.437	-33.784	0.00	H
ATOM	5816	HG22	THR	399	-19.881	-8.561	-32.850	0.00	H
ATOM	5817	HG23	THR	399	-21.054	-9.869	-32.801	0.00	H
ATOM	5818	C	THR	399	-22.046	-5.979	-32.795	81.00	C
ATOM	5819	O	THR	399	-21.380	-5.724	-33.801	81.00	O
ATOM	5820	N	ALA	400	-23.430	-5.921	-32.784	82.55	N
ATOM	5821	HN	ALA	400	-23.964	-6.202	-31.975	0.00	H
ATOM	5822	CA	ALA	400	-24.102	-5.701	-34.061	84.33	C
ATOM	5823	HA	ALA	400	-23.534	-6.141	-34.839	0.00	H
ATOM	5824	CB	ALA	400	-25.494	-6.337	-34.024	83.77	C
ATOM	5825	HB1	ALA	400	-25.402	-7.377	-33.849	0.00	H
ATOM	5826	HB2	ALA	400	-26.063	-5.897	-33.246	0.00	H
ATOM	5827	HB3	ALA	400	-25.980	-6.177	-34.951	0.00	H
ATOM	5828	C	ALA	400	-24.208	-4.242	-34.546	85.80	C
ATOM	5829	O	ALA	400	-24.488	-4.007	-35.721	85.49	O
ATOM	5830	N	ARG	401	-23.990	-3.266	-33.663	87.49	N
ATOM	5831	HN	ARG	401	-23.762	-3.499	-32.708	0.00	H
ATOM	5832	CA	ARG	401	-24.080	-1.860	-34.073	89.65	C
ATOM	5833	HA	ARG	401	-24.193	-1.805	-35.125	0.00	H
ATOM	5834	CB	ARG	401	-25.279	-1.178	-33.412	89.41	C
ATOM	5835	HB2	ARG	401	-26.116	-1.826	-33.445	0.00	H
ATOM	5836	HB3	ARG	401	-25.046	-0.954	-32.404	0.00	H
ATOM	5837	CG	ARG	401	-25.680	0.128	-34.093	89.92	C
ATOM	5838	HG2	ARG	401	-26.094	0.787	-33.375	0.00	H
ATOM	5839	HG3	ARG	401	-24.825	0.575	-34.531	0.00	H
ATOM	5840	CD	ARG	401	-26.721	-0.068	-35.200	90.25	C
ATOM	5841	HD2	ARG	401	-27.621	-0.434	-34.778	0.00	H
ATOM	5842	HD3	ARG	401	-26.906	0.859	-35.678	0.00	H
ATOM	5843	NE	ARG	401	-26.321	-1.016	-36.243	90.69	N1+
ATOM	5844	HE	ARG	401	-25.406	-1.439	-36.216	0.00	H
ATOM	5845	CZ	ARG	401	-27.099	-1.378	-37.264	90.66	C
ATOM	5846	NH1	ARG	401	-28.323	-0.872	-37.388	91.04	N
ATOM	5847	HH11	ARG	401	-28.907	-1.149	-38.162	0.00	H

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ATOM   5848 HH12 ARG   401     -28.667  -0.211 -36.708        0.00           H
ATOM   5849  NH2 ARG   401     -26.659  -2.251 -38.162       90.28           N
ATOM   5850 HH21 ARG   401     -27.250  -2.523 -38.933        0.00           H
ATOM   5851 HH22 ARG   401     -25.733  -2.643 -38.073        0.00           H
ATOM   5852   C  ARG   401     -22.800  -1.051 -33.809       91.44           C
ATOM   5853   O  ARG   401     -21.700  -1.621 -33.851       91.69           O
ATOM   5854   N  HIS   402     -22.910   0.254 -33.512       93.22           N
ATOM   5855  HN  HIS   402     -23.809   0.704 -33.422        0.00           H
ATOM   5856  CA  HIS   402     -21.676   1.031 -33.317       94.63           C
ATOM   5857  HA  HIS   402     -20.867   0.530 -33.781        0.00           H
ATOM   5858  CB  HIS   402     -21.763   2.461 -33.925       95.62           C
ATOM   5859 HB2 HIS   402     -20.908   3.018 -33.642        0.00           H
ATOM   5860 HB3 HIS   402     -21.806   2.394 -34.981        0.00           H
ATOM   5861  CG  HIS   402     -22.949   3.276 -33.509       96.97           C
ATOM   5862 CD2 HIS   402     -23.049   4.332 -32.665       97.09           C
ATOM   5863 HD2 HIS   402     -22.198   4.636 -32.079        0.00           H
ATOM   5864 ND1 HIS   402     -24.192   3.134 -34.091       97.25           N1+
ATOM   5865 HD1 HIS   402     -24.356   2.394 -34.757        0.00           H
ATOM   5866 CE1 HIS   402     -25.003   4.070 -33.631       96.83           C
ATOM   5867 HE1 HIS   402     -26.021   4.120 -33.980        0.00           H
ATOM   5868 NE2 HIS   402     -24.334   4.811 -32.765       97.03           N
ATOM   5869 HE2 HIS   402     -24.619   5.610 -32.218        0.00           H
ATOM   5870   C  HIS   402     -20.841   1.079 -32.026       95.15           C
ATOM   5871   O  HIS   402     -20.796   0.090 -31.291       94.77           O
ATOM   5872   N  THR   403     -20.218   2.222 -31.718       95.80           N
ATOM   5873  HN  THR   403     -20.430   3.093 -32.182        0.00           H
ATOM   5874  CA  THR   403     -19.200   2.181 -30.671       95.95           C
ATOM   5875  HA  THR   403     -19.133   1.198 -30.282        0.00           H
ATOM   5876  CB  THR   403     -17.868   2.607 -31.349       96.29           C
ATOM   5877  HB  THR   403     -17.206   2.991 -30.617        0.00           H
ATOM   5878 OG1 THR   403     -18.120   3.630 -32.328       96.12           O
ATOM   5879 HG1 THR   403     -17.287   3.889 -32.745        0.00           H
ATOM   5880 CG2 THR   403     -17.227   1.381 -32.032       95.84           C
ATOM   5881 HG21 THR   403     -17.032   0.635 -31.307        0.00           H
ATOM   5882 HG22 THR   403     -17.890   0.998 -32.764        0.00           H
ATOM   5883 HG23 THR   403     -16.319   1.669 -32.495        0.00           H
ATOM   5884   C  THR   403     -19.025   2.548 -29.194       95.76           C
ATOM   5885   O  THR   403     -18.031   3.187 -28.813       94.88           O
ATOM   5886   N  PRO   404     -20.009   2.229 -28.353       96.04           N
ATOM   5887  CD  PRO   404     -21.472   2.334 -28.494       95.80           C
ATOM   5888 HD2 PRO   404     -21.706   2.776 -29.428        0.00           H
ATOM   5889 HD3 PRO   404     -21.902   1.367 -28.443        0.00           H
ATOM   5890  CA  PRO   404     -19.593   2.596 -26.998       95.70           C
ATOM   5891  HA  PRO   404     -18.906   3.400 -27.045        0.00           H
ATOM   5892  CB  PRO   404     -20.906   2.796 -26.251       95.83           C
ATOM   5893 HB2 PRO   404     -21.192   1.886 -25.791        0.00           H
ATOM   5894 HB3 PRO   404     -20.780   3.542 -25.510        0.00           H
ATOM   5895  CG  PRO   404     -21.845   3.210 -27.315       95.52           C
ATOM   5896 HG2 PRO   404     -22.840   3.043 -26.993        0.00           H
ATOM   5897 HG3 PRO   404     -21.710   4.239 -27.524        0.00           H
ATOM   5898   C  PRO   404     -19.012   1.184 -26.720       95.57           C
ATOM   5899   O  PRO   404     -18.963   0.357 -27.638       95.83           O
ATOM   5900   N  ILE   405     -18.568   0.876 -25.512       95.00           N
ATOM   5901  HN  ILE   405     -18.572   1.567 -24.776        0.00           H
ATOM   5902  CA  ILE   405     -18.068  -0.478 -25.245       94.18           C
ATOM   5903  HA  ILE   405     -18.507  -1.158 -25.928        0.00           H
ATOM   5904  CB  ILE   405     -16.523  -0.562 -25.397       94.87           C
ATOM   5905  HB  ILE   405     -16.080   0.307 -24.984        0.00           H
ATOM   5906 CG2 ILE   405     -15.963  -1.778 -24.679       95.04           C
ATOM   5907 HG21 ILE   405     -16.197  -1.718 -23.648        0.00           H
ATOM   5908 HG22 ILE   405     -16.390  -2.657 -25.088        0.00           H
ATOM   5909 HG23 ILE   405     -14.911  -1.807 -24.801        0.00           H
ATOM   5910 CG1 ILE   405     -16.169  -0.702 -26.887       95.76           C
ATOM   5911 HG12 ILE   405     -16.542   0.134 -27.419        0.00           H
ATOM   5912 HG13 ILE   405     -15.117  -0.749 -26.997        0.00           H
ATOM   5913 CD1 ILE   405     -16.749  -1.966 -27.574       95.79           C
ATOM   5914 HD11 ILE   405     -16.380  -2.832 -27.089        0.00           H
ATOM   5915 HD12 ILE   405     -17.806  -1.949 -27.510        0.00           H
ATOM   5916 HD13 ILE   405     -16.457  -1.980 -28.592        0.00           H
ATOM   5917   C  ILE   405     -18.530  -0.808 -23.842       93.47           C
ATOM   5918   O  ILE   405     -18.144  -1.801 -23.211       93.15           O
ATOM   5919   N  ASN   406     -19.400   0.074 -23.383       92.25           N
ATOM   5920  HN  ASN   406     -19.627   0.840 -24.000        0.00           H
ATOM   5921  CA  ASN   406     -20.016  -0.011 -22.084       90.48           C
ATOM   5922  HA  ASN   406     -19.275   0.095 -21.335        0.00           H
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ATOM	5923	CB	ASN	406	-21.048	1.121	-21.975	92.23	C
ATOM	5924	HB2	ASN	406	-21.766	0.874	-21.237	0.00	H
ATOM	5925	HB3	ASN	406	-20.558	2.020	-21.705	0.00	H
ATOM	5926	CG	ASN	406	-21.784	1.357	-23.297	93.06	C
ATOM	5927	OD1	ASN	406	-21.916	0.433	-24.109	92.92	O
ATOM	5928	ND2	ASN	406	-22.265	2.584	-23.517	93.57	N
ATOM	5929	HD21	ASN	406	-22.134	3.308	-22.827	0.00	H
ATOM	5930	HD22	ASN	406	-22.759	2.786	-24.373	0.00	H
ATOM	5931	C	ASN	406	-20.684	-1.379	-21.874	88.20	C
ATOM	5932	O	ASN	406	-20.509	-2.323	-22.656	87.43	O
ATOM	5933	N	SER	407	-21.455	-1.448	-20.797	85.57	N
ATOM	5934	HN	SER	407	-21.514	-0.607	-20.243	0.00	H
ATOM	5935	CA	SER	407	-22.188	-2.633	-20.396	82.51	C
ATOM	5936	HA	SER	407	-22.503	-2.530	-19.390	0.00	H
ATOM	5937	CB	SER	407	-23.419	-2.824	-21.288	81.67	C
ATOM	5938	HB2	SER	407	-24.069	-3.534	-20.846	0.00	H
ATOM	5939	HB3	SER	407	-23.925	-1.900	-21.393	0.00	H
ATOM	5940	OG	SER	407	-23.060	-3.285	-22.570	81.72	O
ATOM	5941	HG	SER	407	-23.856	-3.395	-23.108	0.00	H
ATOM	5942	C	SER	407	-21.308	-3.883	-20.394	80.84	C
ATOM	5943	O	SER	407	-20.692	-4.192	-19.375	80.63	O
ATOM	5944	N	TRP	408	-21.112	-4.591	-21.570	77.93	N
ATOM	5945	HN	TRP	408	-21.433	-4.146	-22.432	0.00	H
ATOM	5946	CA	TRP	408	-20.410	-5.869	-21.555	74.87	C
ATOM	5947	HA	TRP	408	-20.965	-6.482	-20.862	0.00	H
ATOM	5948	CB	TRP	408	-20.386	-6.655	-22.847	74.84	C
ATOM	5949	HB2	TRP	408	-20.078	-7.671	-22.611	0.00	H
ATOM	5950	HB3	TRP	408	-21.403	-6.737	-23.224	0.00	H
ATOM	5951	CG	TRP	408	-19.485	-6.161	-23.940	75.03	C
ATOM	5952	CD2	TRP	408	-18.057	-6.372	-24.085	74.79	C
ATOM	5953	CE2	TRP	408	-17.660	-5.742	-25.273	74.66	C
ATOM	5954	CE3	TRP	408	-17.066	-7.031	-23.315	74.82	C
ATOM	5955	HE3	TRP	408	-17.345	-7.525	-22.408	0.00	H
ATOM	5956	CD1	TRP	408	-19.895	-5.427	-25.051	74.67	C
ATOM	5957	HD1	TRP	408	-20.870	-5.066	-25.337	0.00	H
ATOM	5958	NE1	TRP	408	-18.791	-5.183	-25.839	74.50	N
ATOM	5959	HE1	TRP	408	-18.806	-4.665	-26.712	0.00	H
ATOM	5960	CZ2	TRP	408	-16.317	-5.714	-25.707	74.27	C
ATOM	5961	HZ2	TRP	408	-16.034	-5.220	-26.628	0.00	H
ATOM	5962	CZ3	TRP	408	-15.721	-7.016	-23.727	74.20	C
ATOM	5963	HZ3	TRP	408	-14.976	-7.528	-23.133	0.00	H
ATOM	5964	CH2	TRP	408	-15.356	-6.362	-24.908	74.04	C
ATOM	5965	HH2	TRP	408	-14.320	-6.367	-25.216	0.00	H
ATOM	5966	C	TRP	408	-19.026	-5.804	-20.963	72.68	C
ATOM	5967	O	TRP	408	-18.585	-6.758	-20.341	73.02	O
ATOM	5968	N	LEU	409	-18.267	-4.669	-21.189	70.17	N
ATOM	5969	HN	LEU	409	-18.526	-4.118	-21.994	0.00	H
ATOM	5970	CA	LEU	409	-16.999	-4.425	-20.518	67.26	C
ATOM	5971	HA	LEU	409	-16.380	-5.279	-20.612	0.00	H
ATOM	5972	CB	LEU	409	-16.284	-3.220	-21.143	66.67	C
ATOM	5973	HB2	LEU	409	-16.106	-3.409	-22.170	0.00	H
ATOM	5974	HB3	LEU	409	-16.891	-2.358	-21.043	0.00	H
ATOM	5975	CG	LEU	409	-14.927	-2.860	-20.533	65.53	C
ATOM	5976	HG	LEU	409	-15.071	-2.455	-19.565	0.00	H
ATOM	5977	CD1	LEU	409	-14.055	-4.106	-20.431	65.82	C
ATOM	5978	HD11	LEU	409	-14.534	-4.823	-19.816	0.00	H
ATOM	5979	HD12	LEU	409	-13.906	-4.513	-21.397	0.00	H
ATOM	5980	HD13	LEU	409	-13.119	-3.848	-20.008	0.00	H
ATOM	5981	CD2	LEU	409	-14.254	-1.799	-21.382	65.42	C
ATOM	5982	HD21	LEU	409	-14.112	-2.170	-22.364	0.00	H
ATOM	5983	HD22	LEU	409	-14.865	-0.935	-21.417	0.00	H
ATOM	5984	HD23	LEU	409	-13.315	-1.551	-20.959	0.00	H
ATOM	5985	C	LEU	409	-17.263	-4.179	-19.040	65.13	C
ATOM	5986	O	LEU	409	-16.772	-4.908	-18.176	64.95	O
ATOM	5987	N	GLY	410	-18.059	-3.156	-18.758	62.91	N
ATOM	5988	HN	GLY	410	-18.441	-2.597	-19.506	0.00	H
ATOM	5989	CA	GLY	410	-18.381	-2.840	-17.381	60.37	C
ATOM	5990	HA2	GLY	410	-17.511	-2.495	-16.885	0.00	H
ATOM	5991	HA3	GLY	410	-19.124	-2.086	-17.356	0.00	H
ATOM	5992	C	GLY	410	-18.903	-4.055	-16.647	58.65	C
ATOM	5993	O	GLY	410	-18.412	-4.395	-15.567	58.33	O
ATOM	5994	N	ASN	411	-19.896	-4.713	-17.244	57.09	N
ATOM	5995	HN	ASN	411	-20.227	-4.363	-18.130	0.00	H
ATOM	5996	CA	ASN	411	-20.502	-5.902	-16.658	55.21	C
ATOM	5997	HA	ASN	411	-21.024	-5.634	-15.776	0.00	H

ATOM	5998	CB	ASN	411	-21.487	-6.555	-17.631	53.99	C
ATOM	5999	HB2	ASN	411	-21.168	-6.382	-18.626	0.00	H
ATOM	6000	HB3	ASN	411	-21.525	-7.598	-17.449	0.00	H
ATOM	6001	CG	ASN	411	-22.902	-6.009	-17.496	53.04	C
ATOM	6002	OD1	ASN	411	-23.403	-5.785	-16.381	49.12	O
ATOM	6003	ND2	ASN	411	-23.564	-5.813	-18.636	52.85	N
ATOM	6004	HD21	ASN	411	-23.117	-6.009	-19.519	0.00	H
ATOM	6005	HD22	ASN	411	-24.512	-5.469	-18.616	0.00	H
ATOM	6006	C	ASN	411	-19.451	-6.919	-16.254	54.81	C
ATOM	6007	O	ASN	411	-19.511	-7.471	-15.155	54.28	O
ATOM	6008	N	ILE	412	-18.493	-7.169	-17.142	54.35	N
ATOM	6009	HN	ILE	412	-18.511	-6.690	-18.030	0.00	H
ATOM	6010	CA	ILE	412	-17.428	-8.119	-16.848	55.05	C
ATOM	6011	HA	ILE	412	-17.849	-9.070	-16.649	0.00	H
ATOM	6012	CB	ILE	412	-16.449	-8.257	-18.032	55.58	C
ATOM	6013	HB	ILE	412	-16.168	-7.294	-18.372	0.00	H
ATOM	6014	CG2	ILE	412	-15.201	-9.018	-17.593	55.35	C
ATOM	6015	HG21	ILE	412	-14.725	-8.492	-16.807	0.00	H
ATOM	6016	HG22	ILE	412	-15.477	-9.983	-17.255	0.00	H
ATOM	6017	HG23	ILE	412	-14.536	-9.107	-18.412	0.00	H
ATOM	6018	CG1	ILE	412	-17.121	-8.994	-19.191	56.05	C
ATOM	6019	HG12	ILE	412	-17.487	-9.928	-18.851	0.00	H
ATOM	6020	HG13	ILE	412	-17.925	-8.413	-19.560	0.00	H
ATOM	6021	CD1	ILE	412	-16.179	-9.265	-20.352	54.75	C
ATOM	6022	HD11	ILE	412	-15.809	-8.347	-20.728	0.00	H
ATOM	6023	HD12	ILE	412	-15.370	-9.862	-20.018	0.00	H
ATOM	6024	HD13	ILE	412	-16.702	-9.775	-21.119	0.00	H
ATOM	6025	C	ILE	412	-16.645	-7.638	-15.629	56.10	C
ATOM	6026	O	ILE	412	-16.544	-8.335	-14.614	55.34	O
ATOM	6027	N	ILE	413	-16.089	-6.437	-15.741	56.54	N
ATOM	6028	HN	ILE	413	-16.213	-5.926	-16.602	0.00	H
ATOM	6029	CA	ILE	413	-15.316	-5.857	-14.658	56.44	C
ATOM	6030	HA	ILE	413	-14.403	-6.383	-14.555	0.00	H
ATOM	6031	CB	ILE	413	-14.999	-4.378	-14.926	56.67	C
ATOM	6032	HB	ILE	413	-15.903	-3.835	-15.020	0.00	H
ATOM	6033	CG2	ILE	413	-14.187	-3.808	-13.771	56.48	C
ATOM	6034	HG21	ILE	413	-14.744	-3.890	-12.874	0.00	H
ATOM	6035	HG22	ILE	413	-13.282	-4.349	-13.675	0.00	H
ATOM	6036	HG23	ILE	413	-13.971	-2.789	-13.960	0.00	H
ATOM	6037	CG1	ILE	413	-14.229	-4.242	-16.243	57.44	C
ATOM	6038	HG12	ILE	413	-13.309	-4.761	-16.169	0.00	H
ATOM	6039	HG13	ILE	413	-14.804	-4.653	-17.032	0.00	H
ATOM	6040	CD1	ILE	413	-13.909	-2.810	-16.618	56.20	C
ATOM	6041	HD11	ILE	413	-14.810	-2.263	-16.722	0.00	H
ATOM	6042	HD12	ILE	413	-13.315	-2.371	-15.859	0.00	H
ATOM	6043	HD13	ILE	413	-13.379	-2.795	-17.535	0.00	H
ATOM	6044	C	ILE	413	-16.073	-5.949	-13.343	56.43	C
ATOM	6045	O	ILE	413	-15.525	-6.389	-12.338	57.02	O
ATOM	6046	N	MET	414	-17.340	-5.548	-13.362	55.71	N
ATOM	6047	HN	MET	414	-17.730	-5.229	-14.236	0.00	H
ATOM	6048	CA	MET	414	-18.164	-5.562	-12.156	55.50	C
ATOM	6049	HA	MET	414	-17.582	-5.253	-11.327	0.00	H
ATOM	6050	CB	MET	414	-19.355	-4.603	-12.325	55.92	C
ATOM	6051	HB2	MET	414	-19.915	-4.882	-13.180	0.00	H
ATOM	6052	HB3	MET	414	-19.973	-4.653	-11.467	0.00	H
ATOM	6053	CG	MET	414	-18.969	-3.122	-12.510	56.41	C
ATOM	6054	HG2	MET	414	-18.418	-3.010	-13.408	0.00	H
ATOM	6055	HG3	MET	414	-19.847	-2.532	-12.559	0.00	H
ATOM	6056	SD	MET	414	-17.937	-2.429	-11.164	56.10	S
ATOM	6057	CE	MET	414	-19.152	-2.328	-9.810	52.43	C
ATOM	6058	HE1	MET	414	-19.950	-1.695	-10.099	0.00	H
ATOM	6059	HE2	MET	414	-19.527	-3.296	-9.599	0.00	H
ATOM	6060	HE3	MET	414	-18.685	-1.934	-8.945	0.00	H
ATOM	6061	C	MET	414	-18.679	-6.931	-11.704	55.03	C
ATOM	6062	O	MET	414	-18.881	-7.152	-10.512	54.02	O
ATOM	6063	N	TYR	415	-18.892	-7.852	-12.639	55.20	N
ATOM	6064	HN	TYR	415	-18.698	-7.631	-13.604	0.00	H
ATOM	6065	CA	TYR	415	-19.403	-9.177	-12.280	55.03	C
ATOM	6066	HA	TYR	415	-19.536	-9.232	-11.231	0.00	H
ATOM	6067	CB	TYR	415	-20.744	-9.424	-12.971	52.56	C
ATOM	6068	HB2	TYR	415	-20.650	-9.222	-14.006	0.00	H
ATOM	6069	HB3	TYR	415	-21.032	-10.434	-12.833	0.00	H
ATOM	6070	CG	TYR	415	-21.865	-8.556	-12.439	50.60	C
ATOM	6071	CD1	TYR	415	-22.502	-8.859	-11.235	50.04	C
ATOM	6072	HD1	TYR	415	-22.194	-9.719	-10.664	0.00	H

ATOM	6073	CE1	TYR	415	-23.544	-8.061	-10.748	48.86	C
ATOM	6074	HE1	TYR	415	-24.023	-8.310	-9.816	0.00	H
ATOM	6075	CD2	TYR	415	-22.292	-7.433	-13.143	50.20	C
ATOM	6076	HD2	TYR	415	-21.819	-7.169	-14.074	0.00	H
ATOM	6077	CE2	TYR	415	-23.329	-6.631	-12.668	49.24	C
ATOM	6078	HE2	TYR	415	-23.642	-5.767	-13.230	0.00	H
ATOM	6079	CZ	TYR	415	-23.952	-6.950	-11.475	48.82	C
ATOM	6080	OH	TYR	415	-25.001	-6.174	-11.036	48.10	O
ATOM	6081	HH	TYR	415	-25.345	-6.536	-10.208	0.00	H
ATOM	6082	C	TYR	415	-18.448	-10.317	-12.601	55.84	C
ATOM	6083	O	TYR	415	-18.854	-11.480	-12.648	55.75	O
ATOM	6084	N	ALA	416	-17.179	-9.966	-12.797	56.91	N
ATOM	6085	HN	ALA	416	-16.971	-8.982	-12.711	0.00	H
ATOM	6086	CA	ALA	416	-16.113	-10.913	-13.120	57.29	C
ATOM	6087	HA	ALA	416	-16.139	-11.133	-14.155	0.00	H
ATOM	6088	CB	ALA	416	-14.766	-10.299	-12.764	57.66	C
ATOM	6089	HB1	ALA	416	-14.627	-9.407	-13.318	0.00	H
ATOM	6090	HB2	ALA	416	-14.741	-10.078	-11.729	0.00	H
ATOM	6091	HB3	ALA	416	-13.993	-10.984	-12.998	0.00	H
ATOM	6092	C	ALA	416	-16.246	-12.287	-12.458	58.01	C
ATOM	6093	O	ALA	416	-15.929	-13.311	-13.067	57.96	O
ATOM	6094	N	PRO	417	-16.699	-12.328	-11.195	58.65	N
ATOM	6095	CD	PRO	417	-16.762	-11.207	-10.246	58.48	C
ATOM	6096	HD2	PRO	417	-16.107	-10.438	-10.564	0.00	H
ATOM	6097	HD3	PRO	417	-17.752	-10.834	-10.206	0.00	H
ATOM	6098	CA	PRO	417	-16.861	-13.605	-10.483	59.41	C
ATOM	6099	HA	PRO	417	-15.994	-14.198	-10.620	0.00	H
ATOM	6100	CB	PRO	417	-17.033	-13.171	-9.026	59.87	C
ATOM	6101	HB2	PRO	417	-18.065	-13.081	-8.804	0.00	H
ATOM	6102	HB3	PRO	417	-16.596	-13.895	-8.388	0.00	H
ATOM	6103	CG	PRO	417	-16.326	-11.868	-8.974	59.80	C
ATOM	6104	HG2	PRO	417	-16.630	-11.336	-8.110	0.00	H
ATOM	6105	HG3	PRO	417	-15.281	-12.035	-8.936	0.00	H
ATOM	6106	C	PRO	417	-18.052	-14.451	-10.944	59.08	C
ATOM	6107	O	PRO	417	-18.083	-15.660	-10.716	58.54	O
ATOM	6108	N	THR	418	-19.032	-13.821	-11.583	58.59	N
ATOM	6109	HN	THR	418	-18.953	-12.832	-11.768	0.00	H
ATOM	6110	CA	THR	418	-20.216	-14.551	-12.016	58.58	C
ATOM	6111	HA	THR	418	-20.580	-15.140	-11.215	0.00	H
ATOM	6112	CB	THR	418	-21.343	-13.615	-12.468	58.29	C
ATOM	6113	HB	THR	418	-22.262	-14.141	-12.462	0.00	H
ATOM	6114	OG1	THR	418	-21.080	-13.175	-13.804	58.02	O
ATOM	6115	HG1	THR	418	-21.788	-12.584	-14.094	0.00	H
ATOM	6116	CG2	THR	418	-21.458	-12.413	-11.535	59.42	C
ATOM	6117	HG21	THR	418	-21.667	-12.748	-10.552	0.00	H
ATOM	6118	HG22	THR	418	-20.546	-11.875	-11.539	0.00	H
ATOM	6119	HG23	THR	418	-22.241	-11.782	-11.867	0.00	H
ATOM	6120	C	THR	418	-19.969	-15.531	-13.149	58.38	C
ATOM	6121	O	THR	418	-19.133	-15.305	-14.027	57.95	O
ATOM	6122	N	LEU	419	-20.728	-16.623	-13.105	57.99	N
ATOM	6123	HN	LEU	419	-21.367	-16.687	-12.327	0.00	H
ATOM	6124	CA	LEU	419	-20.677	-17.690	-14.095	56.48	C
ATOM	6125	HA	LEU	419	-19.771	-18.228	-13.988	0.00	H
ATOM	6126	CB	LEU	419	-21.859	-18.635	-13.884	57.18	C
ATOM	6127	HB2	LEU	419	-21.891	-18.939	-12.870	0.00	H
ATOM	6128	HB3	LEU	419	-22.759	-18.135	-14.132	0.00	H
ATOM	6129	CG	LEU	419	-21.889	-19.931	-14.689	57.91	C
ATOM	6130	HG	LEU	419	-21.641	-19.726	-15.698	0.00	H
ATOM	6131	CD1	LEU	419	-20.873	-20.907	-14.095	58.86	C
ATOM	6132	HD11	LEU	419	-19.905	-20.480	-14.140	0.00	H
ATOM	6133	HD12	LEU	419	-21.124	-21.107	-13.086	0.00	H
ATOM	6134	HD13	LEU	419	-20.887	-21.810	-14.648	0.00	H
ATOM	6135	CD2	LEU	419	-23.285	-20.526	-14.639	57.17	C
ATOM	6136	HD21	LEU	419	-23.546	-20.729	-13.633	0.00	H
ATOM	6137	HD22	LEU	419	-23.977	-19.838	-15.051	0.00	H
ATOM	6138	HD23	LEU	419	-23.306	-21.425	-15.198	0.00	H
ATOM	6139	C	LEU	419	-20.759	-17.094	-15.499	55.65	C
ATOM	6140	O	LEU	419	-19.809	-17.180	-16.277	56.46	O
ATOM	6141	N	TRP	420	-21.900	-16.484	-15.808	53.54	N
ATOM	6142	HN	TRP	420	-22.624	-16.448	-15.106	0.00	H
ATOM	6143	CA	TRP	420	-22.121	-15.878	-17.114	52.71	C
ATOM	6144	HA	TRP	420	-22.151	-16.635	-17.854	0.00	H
ATOM	6145	CB	TRP	420	-23.450	-15.104	-17.147	50.60	C
ATOM	6146	HB2	TRP	420	-23.427	-14.397	-17.935	0.00	H
ATOM	6147	HB3	TRP	420	-24.249	-15.781	-17.303	0.00	H

ATOM	6148	CG	TRP	420	-23.768	-14.346	-15.900	46.84	C
ATOM	6149	CD2	TRP	420	-23.717	-12.929	-15.722	44.98	C
ATOM	6150	CE2	TRP	420	-24.092	-12.664	-14.388	44.82	C
ATOM	6151	CE3	TRP	420	-23.390	-11.856	-16.559	43.60	C
ATOM	6152	HE3	TRP	420	-23.102	-12.038	-17.581	0.00	H
ATOM	6153	CD1	TRP	420	-24.160	-14.868	-14.702	46.11	C
ATOM	6154	HD1	TRP	420	-24.271	-15.933	-14.589	0.00	H
ATOM	6155	NE1	TRP	420	-24.357	-13.866	-13.788	44.70	N
ATOM	6156	HE1	TRP	420	-24.651	-14.090	-12.849	0.00	H
ATOM	6157	CZ2	TRP	420	-24.149	-11.365	-13.869	44.91	C
ATOM	6158	HZ2	TRP	420	-24.441	-11.207	-12.845	0.00	H
ATOM	6159	CZ3	TRP	420	-23.446	-10.565	-16.043	42.93	C
ATOM	6160	HZ3	TRP	420	-23.199	-9.724	-16.668	0.00	H
ATOM	6161	CH2	TRP	420	-23.822	-10.333	-14.711	43.75	C
ATOM	6162	HH2	TRP	420	-23.850	-9.317	-14.354	0.00	H
ATOM	6163	C	TRP	420	-21.001	-14.961	-17.579	53.47	C
ATOM	6164	O	TRP	420	-20.485	-15.119	-18.687	54.31	O
ATOM	6165	N	ALA	421	-20.628	-14.002	-16.740	53.92	N
ATOM	6166	HN	ALA	421	-21.089	-13.932	-15.845	0.00	H
ATOM	6167	CA	ALA	421	-19.574	-13.061	-17.092	53.80	C
ATOM	6168	HA	ALA	421	-19.886	-12.473	-17.916	0.00	H
ATOM	6169	CB	ALA	421	-19.273	-12.151	-15.919	53.88	C
ATOM	6170	HB1	ALA	421	-20.146	-11.612	-15.657	0.00	H
ATOM	6171	HB2	ALA	421	-18.957	-12.733	-15.093	0.00	H
ATOM	6172	HB3	ALA	421	-18.506	-11.472	-16.187	0.00	H
ATOM	6173	C	ALA	421	-18.307	-13.785	-17.519	54.77	C
ATOM	6174	O	ALA	421	-17.627	-13.354	-18.453	55.06	O
ATOM	6175	N	ARG	422	-18.003	-14.892	-16.841	54.99	N
ATOM	6176	HN	ARG	422	-18.630	-15.184	-16.106	0.00	H
ATOM	6177	CA	ARG	422	-16.804	-15.676	-17.134	55.58	C
ATOM	6178	HA	ARG	422	-15.991	-15.023	-17.317	0.00	H
ATOM	6179	CB	ARG	422	-16.460	-16.582	-15.950	54.06	C
ATOM	6180	HB2	ARG	422	-17.206	-17.327	-15.847	0.00	H
ATOM	6181	HB3	ARG	422	-15.522	-17.043	-16.119	0.00	H
ATOM	6182	CG	ARG	422	-16.359	-15.892	-14.602	53.26	C
ATOM	6183	HG2	ARG	422	-15.618	-15.137	-14.647	0.00	H
ATOM	6184	HG3	ARG	422	-17.293	-15.457	-14.357	0.00	H
ATOM	6185	CD	ARG	422	-15.979	-16.899	-13.517	51.34	C
ATOM	6186	HD2	ARG	422	-16.021	-16.429	-12.569	0.00	H
ATOM	6187	HD3	ARG	422	-16.656	-17.713	-13.538	0.00	H
ATOM	6188	NE	ARG	422	-14.628	-17.409	-13.727	50.48	N1+
ATOM	6189	HE	ARG	422	-14.036	-16.995	-14.432	0.00	H
ATOM	6190	CZ	ARG	422	-14.084	-18.411	-13.046	49.83	C
ATOM	6191	NH1	ARG	422	-14.779	-19.025	-12.099	48.20	N
ATOM	6192	HH11	ARG	422	-14.365	-19.786	-11.582	0.00	H
ATOM	6193	HH12	ARG	422	-15.722	-18.731	-11.895	0.00	H
ATOM	6194	NH2	ARG	422	-12.838	-18.795	-13.313	49.74	N
ATOM	6195	HH21	ARG	422	-12.423	-19.556	-12.797	0.00	H
ATOM	6196	HH22	ARG	422	-12.308	-18.325	-14.032	0.00	H
ATOM	6197	C	ARG	422	-16.929	-16.543	-18.392	56.87	C
ATOM	6198	O	ARG	422	-16.231	-16.328	-19.390	56.58	O
ATOM	6199	N	MET	423	-17.823	-17.525	-18.328	57.78	N
ATOM	6200	HN	MET	423	-18.358	-17.615	-17.477	0.00	H
ATOM	6201	CA	MET	423	-18.044	-18.452	-19.428	58.71	C
ATOM	6202	HA	MET	423	-17.122	-18.888	-19.713	0.00	H
ATOM	6203	CB	MET	423	-19.010	-19.556	-18.996	59.28	C
ATOM	6204	HB2	MET	423	-19.892	-19.120	-18.605	0.00	H
ATOM	6205	HB3	MET	423	-19.255	-20.158	-19.832	0.00	H
ATOM	6206	CG	MET	423	-18.470	-20.484	-17.931	59.44	C
ATOM	6207	HG2	MET	423	-17.572	-20.928	-18.273	0.00	H
ATOM	6208	HG3	MET	423	-18.278	-19.933	-17.047	0.00	H
ATOM	6209	SD	MET	423	-19.643	-21.801	-17.537	61.94	S
ATOM	6210	CE	MET	423	-19.084	-23.146	-18.655	59.81	C
ATOM	6211	HE1	MET	423	-19.147	-22.819	-19.660	0.00	H
ATOM	6212	HE2	MET	423	-18.081	-23.399	-18.428	0.00	H
ATOM	6213	HE3	MET	423	-19.702	-23.996	-18.521	0.00	H
ATOM	6214	C	MET	423	-18.558	-17.836	-20.722	59.21	C
ATOM	6215	O	MET	423	-18.086	-18.179	-21.804	60.06	O
ATOM	6216	N	ILE	424	-19.386	-16.696	-20.593	58.89	N
ATOM	6217	HN	ILE	424	-19.489	-16.230	-19.685	0.00	H
ATOM	6218	CA	ILE	424	-20.109	-16.162	-21.772	59.05	C
ATOM	6219	HA	ILE	424	-19.993	-16.884	-22.574	0.00	H
ATOM	6220	CB	ILE	424	-21.629	-16.010	-21.493	59.75	C
ATOM	6221	HB	ILE	424	-21.771	-15.156	-20.825	0.00	H
ATOM	6222	CG2	ILE	424	-22.404	-15.692	-22.781	58.18	C

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ATOM   6223 HG21 ILE   424     -22.122 -14.717 -23.188       0.00           H
ATOM   6224 HG22 ILE   424     -22.219 -16.448 -23.549       0.00           H
ATOM   6225 HG23 ILE   424     -23.482 -15.644 -22.613       0.00           H
ATOM   6226  CG1 ILE   424     -22.234 -17.257 -20.820      59.19           C
ATOM   6227 HG12 ILE   424     -22.355 -18.067 -21.547       0.00           H
ATOM   6228 HG13 ILE   424     -21.574 -17.641 -20.038       0.00           H
ATOM   6229  CD1 ILE   424     -23.570 -16.941 -20.163      60.36           C
ATOM   6230 HD11 ILE   424     -23.481 -16.073 -19.516       0.00           H
ATOM   6231 HD12 ILE   424     -24.340 -16.680 -20.883       0.00           H
ATOM   6232 HD13 ILE   424     -23.920 -17.787 -19.568       0.00           H
ATOM   6233  C   ILE   424     -19.608 -14.818 -22.367      59.14           C
ATOM   6234  O   ILE   424     -19.581 -14.654 -23.589      58.46           O
ATOM   6235  N   LEU   425     -19.427 -13.784 -21.488      59.84           N
ATOM   6236  HN  LEU   425     -19.316 -14.039 -20.503       0.00           H
ATOM   6237  CA  LEU   425     -19.024 -12.455 -21.932      60.45           C
ATOM   6238  HA  LEU   425     -19.473 -12.275 -22.891       0.00           H
ATOM   6239  CB  LEU   425     -19.375 -11.355 -20.952      59.95           C
ATOM   6240 HB2 LEU   425     -19.034 -11.634 -19.954       0.00           H
ATOM   6241 HB3 LEU   425     -18.829 -10.447 -21.217       0.00           H
ATOM   6242  CG  LEU   425     -20.859 -11.003 -20.910      59.95           C
ATOM   6243  HG  LEU   425     -21.413 -11.899 -20.624       0.00           H
ATOM   6244 CD1 LEU   425     -21.110  -9.932 -19.849      59.10           C
ATOM   6245 HD11 LEU   425     -20.749 -10.258 -18.868       0.00           H
ATOM   6246 HD12 LEU   425     -20.603  -8.995 -20.101       0.00           H
ATOM   6247 HD13 LEU   425     -22.179  -9.717 -19.752       0.00           H
ATOM   6248 CD2 LEU   425     -21.342 -10.521 -22.280      59.06           C
ATOM   6249 HD21 LEU   425     -20.621  -9.837 -22.733       0.00           H
ATOM   6250 HD22 LEU   425     -21.475 -11.365 -22.963       0.00           H
ATOM   6251 HD23 LEU   425     -22.298  -9.996 -22.217       0.00           H
ATOM   6252  C   LEU   425     -17.540 -12.371 -22.198      61.19           C
ATOM   6253  O   LEU   425     -17.100 -11.578 -23.021      61.23           O
ATOM   6254  N   MET   426     -16.726 -13.171 -21.420      62.15           N
ATOM   6255  HN  MET   426     -17.080 -13.556 -20.557       0.00           H
ATOM   6256  CA  MET   426     -15.294 -13.186 -21.691      63.41           C
ATOM   6257  HA  MET   426     -14.954 -12.196 -21.849       0.00           H
ATOM   6258  CB  MET   426     -14.530 -13.787 -20.517      62.81           C
ATOM   6259 HB2 MET   426     -14.771 -14.814 -20.428       0.00           H
ATOM   6260 HB3 MET   426     -13.489 -13.681 -20.682       0.00           H
ATOM   6261  CG  MET   426     -14.854 -13.126 -19.202      62.93           C
ATOM   6262 HG2 MET   426     -14.827 -12.074 -19.320       0.00           H
ATOM   6263 HG3 MET   426     -15.821 -13.421 -18.888       0.00           H
ATOM   6264  SD  MET   426     -13.693 -13.574 -17.926      63.00           S
ATOM   6265  CE  MET   426     -13.706 -12.100 -16.912      63.19           C
ATOM   6266 HE1 MET   426     -13.395 -11.270 -17.492       0.00           H
ATOM   6267 HE2 MET   426     -14.686 -11.930 -16.549       0.00           H
ATOM   6268 HE3 MET   426     -13.044 -12.228 -16.095       0.00           H
ATOM   6269  C   MET   426     -15.032 -13.999 -22.951      64.59           C
ATOM   6270  O   MET   426     -14.516 -13.484 -23.944      65.44           O
ATOM   6271  N   THR   427     -15.400 -15.272 -22.909      65.21           N
ATOM   6272  HN  THR   427     -15.819 -15.634 -22.065       0.00           H
ATOM   6273  CA  THR   427     -15.208 -16.142 -24.055      65.69           C
ATOM   6274  HA  THR   427     -14.186 -16.408 -24.129       0.00           H
ATOM   6275  CB  THR   427     -16.041 -17.419 -23.916      64.79           C
ATOM   6276  HB  THR   427     -17.071 -17.172 -23.928       0.00           H
ATOM   6277 OG1 THR   427     -15.718 -18.064 -22.679      64.39           O
ATOM   6278 HG1 THR   427     -16.243 -18.871 -22.589       0.00           H
ATOM   6279 CG2 THR   427     -15.745 -18.370 -25.066      65.10           C
ATOM   6280 HG21 THR   427     -15.984 -17.899 -25.984       0.00           H
ATOM   6281 HG22 THR   427     -14.717 -18.625 -25.058       0.00           H
ATOM   6282 HG23 THR   427     -16.327 -19.248 -24.957       0.00           H
ATOM   6283  C   THR   427     -15.599 -15.450 -25.358      66.93           C
ATOM   6284  O   THR   427     -14.790 -15.343 -26.278      66.78           O
ATOM   6285  N   HID   428     -16.901 -14.998 -25.533      68.01           N
ATOM   6286  HN  HID   428     -17.487 -14.892 -24.704       0.00           H
ATOM   6287  CA  HID   428     -17.397 -14.502 -26.831      70.25           C
ATOM   6288  HA  HID   428     -17.052 -15.219 -27.581       0.00           H
ATOM   6289  CB  HID   428     -18.925 -14.468 -26.838      71.72           C
ATOM   6290 HB2 HID   428     -19.335 -15.412 -26.478       0.00           H
ATOM   6291 HB3 HID   428     -19.284 -13.689 -26.158       0.00           H
ATOM   6292  CG  HID   428     -19.528 -14.200 -28.168      73.09           C
ATOM   6293  CD2 HID   428     -20.547 -13.302 -28.513      73.35           C
ATOM   6294  HD2 HID   428     -21.093 -12.608 -27.900       0.00           H
ATOM   6295  ND1 HID   428     -19.125 -14.825 -29.366      73.29           N1+
ATOM   6296  HD1 HID   428     -18.370 -15.501 -29.481       0.00           H
ATOM   6297  CE1 HID   428     -19.868 -14.321 -30.360      73.27           C
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ATOM   6298  HE1 HID   428     -19.829 -14.565 -31.413        0.00           H
ATOM   6299  NE2 HID   428     -20.746 -13.406 -29.869       73.74           N
ATOM   6300  C   HID   428     -16.917 -13.126 -27.343       71.06           C
ATOM   6301  O   HID   428     -17.032 -12.843 -28.538       71.05           O
ATOM   6302  N   PHE   429     -16.582 -12.207 -26.381       72.30           N
ATOM   6303  HN  PHE   429     -16.418 -12.549 -25.433        0.00           H
ATOM   6304  CA  PHE   429     -16.072 -10.910 -26.754       73.46           C
ATOM   6305  HA  PHE   429     -16.345 -10.736 -27.795        0.00           H
ATOM   6306  CB  PHE   429     -16.662  -9.760 -25.951       73.24           C
ATOM   6307  HB2 PHE   429     -16.518  -9.924 -24.884        0.00           H
ATOM   6308  HB3 PHE   429     -16.111  -8.850 -26.181        0.00           H
ATOM   6309  CG  PHE   429     -18.131  -9.526 -26.253       72.71           C
ATOM   6310  CD1 PHE   429     -18.531  -8.559 -27.194       71.34           C
ATOM   6311  HD1 PHE   429     -17.790  -7.959 -27.703        0.00           H
ATOM   6312  CD2 PHE   429     -19.123 -10.276 -25.590       72.72           C
ATOM   6313  HD2 PHE   429     -18.829 -11.032 -24.883        0.00           H
ATOM   6314  CE1 PHE   429     -19.890  -8.322 -27.435       71.11           C
ATOM   6315  HE1 PHE   429     -20.194  -7.532 -28.112        0.00           H
ATOM   6316  CE2 PHE   429     -20.480 -10.056 -25.848       72.50           C
ATOM   6317  HE2 PHE   429     -21.230 -10.624 -25.331        0.00           H
ATOM   6318  CZ  PHE   429     -20.859  -9.080 -26.773       71.91           C
ATOM   6319  HZ  PHE   429     -21.903  -8.877 -26.951        0.00           H
ATOM   6320  C   PHE   429     -14.540 -10.873 -26.788       74.33           C
ATOM   6321  O   PHE   429     -14.006  -9.933 -27.371       74.17           O
ATOM   6322  N   PHE   430     -13.810 -11.882 -26.142       75.25           N
ATOM   6323  HN  PHE   430     -14.320 -12.434 -25.469        0.00           H
ATOM   6324  CA  PHE   430     -12.384 -12.104 -26.336       77.04           C
ATOM   6325  HA  PHE   430     -11.875 -11.176 -26.304        0.00           H
ATOM   6326  CB  PHE   430     -11.804 -13.013 -25.248       78.01           C
ATOM   6327  HB2 PHE   430     -12.586 -13.564 -24.794        0.00           H
ATOM   6328  HB3 PHE   430     -11.107 -13.682 -25.682        0.00           H
ATOM   6329  CG  PHE   430     -11.086 -12.266 -24.151       78.63           C
ATOM   6330  CD1 PHE   430     -11.796 -11.612 -23.146       78.99           C
ATOM   6331  HD1 PHE   430     -12.873 -11.642 -23.140        0.00           H
ATOM   6332  CD2 PHE   430      -9.696 -12.207 -24.132       78.46           C
ATOM   6333  HD2 PHE   430      -9.125 -12.704 -24.898        0.00           H
ATOM   6334  CE1 PHE   430     -11.129 -10.911 -22.136       78.96           C
ATOM   6335  HE1 PHE   430     -11.692 -10.411 -21.365        0.00           H
ATOM   6336  CE2 PHE   430      -9.019 -11.509 -23.129       78.62           C
ATOM   6337  HE2 PHE   430      -7.943 -11.473 -23.130        0.00           H
ATOM   6338  CZ  PHE   430      -9.737 -10.860 -22.128       78.91           C
ATOM   6339  HZ  PHE   430      -9.222 -10.321 -21.351        0.00           H
ATOM   6340  C   PHE   430     -12.166 -12.729 -27.715       77.50           C
ATOM   6341  O   PHE   430     -11.103 -12.581 -28.317       78.00           O
ATOM   6342  N   SER   431     -13.181 -13.429 -28.214       77.63           N
ATOM   6343  HN  SER   431     -14.021 -13.533 -27.665        0.00           H
ATOM   6344  CA  SER   431     -13.093 -14.040 -29.532       77.21           C
ATOM   6345  HA  SER   431     -12.214 -14.628 -29.590        0.00           H
ATOM   6346  CB  SER   431     -14.304 -14.938 -29.803       76.60           C
ATOM   6347  HB2 SER   431     -15.194 -14.391 -29.631        0.00           H
ATOM   6348  HB3 SER   431     -14.281 -15.268 -30.809        0.00           H
ATOM   6349  OG  SER   431     -14.296 -16.072 -28.953       76.92           O
ATOM   6350  HG  SER   431     -15.068 -16.622 -29.142        0.00           H
ATOM   6351  C   SER   431     -13.070 -12.900 -30.529       77.68           C
ATOM   6352  O   SER   431     -12.081 -12.696 -31.232       78.15           O
ATOM   6353  N   ILE   432     -14.191 -12.098 -30.502       78.34           N
ATOM   6354  HN  ILE   432     -14.804 -12.164 -29.691        0.00           H
ATOM   6355  CA  ILE   432     -14.351 -10.995 -31.440       78.96           C
ATOM   6356  HA  ILE   432     -14.106 -11.394 -32.420        0.00           H
ATOM   6357  CB  ILE   432     -15.837 -10.536 -31.491       78.65           C
ATOM   6358  HB  ILE   432     -16.152 -10.262 -30.477        0.00           H
ATOM   6359  CG2 ILE   432     -16.060  -9.314 -32.391       78.17           C
ATOM   6360 HG21 ILE   432     -15.585  -8.422 -31.978        0.00           H
ATOM   6361 HG22 ILE   432     -15.670  -9.487 -33.400        0.00           H
ATOM   6362 HG23 ILE   432     -17.118  -9.055 -32.478        0.00           H
ATOM   6363  CG1 ILE   432     -16.716 -11.716 -31.981       79.11           C
ATOM   6364 HG12 ILE   432     -16.408 -12.014 -32.990        0.00           H
ATOM   6365 HG13 ILE   432     -16.557 -12.592 -31.344        0.00           H
ATOM   6366  CD1 ILE   432     -18.211 -11.433 -31.994       79.44           C
ATOM   6367 HD11 ILE   432     -18.553 -11.056 -31.025        0.00           H
ATOM   6368 HD12 ILE   432     -18.480 -10.711 -32.768        0.00           H
ATOM   6369 HD13 ILE   432     -18.762 -12.351 -32.217        0.00           H
ATOM   6370  C   ILE   432     -13.294  -9.886 -31.168       79.71           C
ATOM   6371  O   ILE   432     -13.287  -8.822 -31.789       79.20           O
ATOM   6372  N   LEU   433     -12.343 -10.223 -30.229       80.77           N
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ATOM	6373	HN	LEU	433	-12.548	-10.998	-29.617	0.00	H
ATOM	6374	CA	LEU	433	-11.198	-9.358	-29.954	81.81	C
ATOM	6375	HA	LEU	433	-11.471	-8.348	-30.119	0.00	H
ATOM	6376	CB	LEU	433	-10.723	-9.505	-28.500	81.61	C
ATOM	6377	HB2	LEU	433	-11.032	-10.444	-28.121	0.00	H
ATOM	6378	HB3	LEU	433	-9.667	-9.441	-28.466	0.00	H
ATOM	6379	CG	LEU	433	-11.236	-8.463	-27.499	81.77	C
ATOM	6380	HG	LEU	433	-12.288	-8.545	-27.412	0.00	H
ATOM	6381	CD1	LEU	433	-10.588	-8.714	-26.145	81.95	C
ATOM	6382	HD11	LEU	433	-10.839	-9.686	-25.808	0.00	H
ATOM	6383	HD12	LEU	433	-9.536	-8.633	-26.237	0.00	H
ATOM	6384	HD13	LEU	433	-10.938	-7.998	-25.448	0.00	H
ATOM	6385	CD2	LEU	433	-10.902	-7.048	-27.986	81.01	C
ATOM	6386	HD21	LEU	433	-9.852	-6.947	-28.083	0.00	H
ATOM	6387	HD22	LEU	433	-11.361	-6.880	-28.925	0.00	H
ATOM	6388	HD23	LEU	433	-11.262	-6.340	-27.286	0.00	H
ATOM	6389	C	LEU	433	-10.051	-9.681	-30.902	82.16	C
ATOM	6390	O	LEU	433	-9.899	-9.026	-31.936	82.37	O
ATOM	6391	N	LEU	434	-9.252	-10.691	-30.554	82.40	N
ATOM	6392	HN	LEU	434	-9.440	-11.183	-29.693	0.00	H
ATOM	6393	CA	LEU	434	-8.123	-11.089	-31.392	82.45	C
ATOM	6394	HA	LEU	434	-7.382	-10.333	-31.368	0.00	H
ATOM	6395	CB	LEU	434	-7.498	-12.404	-30.897	81.58	C
ATOM	6396	HB2	LEU	434	-7.299	-13.034	-31.725	0.00	H
ATOM	6397	HB3	LEU	434	-6.594	-12.195	-30.387	0.00	H
ATOM	6398	CG	LEU	434	-8.252	-13.317	-29.927	80.64	C
ATOM	6399	HG	LEU	434	-9.214	-13.528	-30.316	0.00	H
ATOM	6400	CD1	LEU	434	-7.481	-14.623	-29.747	80.32	C
ATOM	6401	HD11	LEU	434	-7.385	-15.108	-30.683	0.00	H
ATOM	6402	HD12	LEU	434	-6.519	-14.414	-29.357	0.00	H
ATOM	6403	HD13	LEU	434	-8.005	-15.253	-29.076	0.00	H
ATOM	6404	CD2	LEU	434	-8.412	-12.617	-28.589	80.17	C
ATOM	6405	HD21	LEU	434	-7.456	-12.393	-28.191	0.00	H
ATOM	6406	HD22	LEU	434	-8.957	-11.719	-28.723	0.00	H
ATOM	6407	HD23	LEU	434	-8.934	-13.250	-27.920	0.00	H
ATOM	6408	C	LEU	434	-8.595	-11.246	-32.832	82.73	C
ATOM	6409	O	LEU	434	-7.811	-11.123	-33.774	82.60	O
ATOM	6410	N	ALA	435	-9.891	-11.499	-32.990	83.07	N
ATOM	6411	HN	ALA	435	-10.463	-11.581	-32.163	0.00	H
ATOM	6412	CA	ALA	435	-10.489	-11.657	-34.306	83.67	C
ATOM	6413	HA	ALA	435	-9.980	-12.420	-34.836	0.00	H
ATOM	6414	CB	ALA	435	-11.965	-12.038	-34.168	83.18	C
ATOM	6415	HB1	ALA	435	-12.046	-12.951	-33.637	0.00	H
ATOM	6416	HB2	ALA	435	-12.478	-11.276	-33.641	0.00	H
ATOM	6417	HB3	ALA	435	-12.392	-12.151	-35.131	0.00	H
ATOM	6418	C	ALA	435	-10.353	-10.351	-35.087	84.15	C
ATOM	6419	O	ALA	435	-10.781	-10.261	-36.236	84.01	O
ATOM	6420	N	GLN	436	-9.760	-9.341	-34.455	84.93	N
ATOM	6421	HN	GLN	436	-9.442	-9.502	-33.511	0.00	H
ATOM	6422	CA	GLN	436	-9.563	-8.034	-35.080	86.13	C
ATOM	6423	HA	GLN	436	-9.395	-8.161	-36.118	0.00	H
ATOM	6424	CB	GLN	436	-10.803	-7.159	-34.875	86.06	C
ATOM	6425	HB2	GLN	436	-10.809	-6.782	-33.886	0.00	H
ATOM	6426	HB3	GLN	436	-10.783	-6.352	-35.560	0.00	H
ATOM	6427	CG	GLN	436	-12.119	-7.893	-35.084	87.44	C
ATOM	6428	HG2	GLN	436	-12.103	-8.387	-36.020	0.00	H
ATOM	6429	HG3	GLN	436	-12.253	-8.605	-34.311	0.00	H
ATOM	6430	CD	GLN	436	-13.319	-6.968	-35.072	88.34	C
ATOM	6431	OE1	GLN	436	-13.368	-6.011	-34.296	88.86	O
ATOM	6432	NE2	GLN	436	-14.305	-7.258	-35.926	88.89	N
ATOM	6433	HE21	GLN	436	-14.221	-8.052	-36.543	0.00	H
ATOM	6434	HE22	GLN	436	-15.134	-6.683	-35.954	0.00	H
ATOM	6435	C	GLN	436	-8.341	-7.344	-34.469	86.81	C
ATOM	6436	O	GLN	436	-8.031	-6.196	-34.791	86.38	O
ATOM	6437	N	GLU	437	-7.665	-8.063	-33.579	88.42	N
ATOM	6438	HN	GLU	437	-8.018	-8.988	-33.386	0.00	H
ATOM	6439	CA	GLU	437	-6.468	-7.579	-32.891	90.23	C
ATOM	6440	HA	GLU	437	-6.085	-8.345	-32.268	0.00	H
ATOM	6441	CB	GLU	437	-5.399	-7.181	-33.924	90.76	C
ATOM	6442	HB2	GLU	437	-5.291	-7.957	-34.637	0.00	H
ATOM	6443	HB3	GLU	437	-5.696	-6.291	-34.414	0.00	H
ATOM	6444	CG	GLU	437	-4.013	-6.923	-33.330	91.27	C
ATOM	6445	HG2	GLU	437	-3.310	-6.806	-34.113	0.00	H
ATOM	6446	HG3	GLU	437	-4.039	-6.041	-32.744	0.00	H
ATOM	6447	CD	GLU	437	-3.543	-8.070	-32.439	91.82	C

ATOM	6448	OE1	GLU	437	-3.438	-9.213	-32.940	91.66	O1-
ATOM	6449	OE2	GLU	437	-3.286	-7.829	-31.236	92.11	O
ATOM	6450	C	GLU	437	-6.733	-6.411	-31.926	91.14	C
ATOM	6451	O	GLU	437	-5.821	-5.647	-31.595	91.19	O
ATOM	6452	N	GLN	438	-7.975	-6.285	-31.460	92.03	N
ATOM	6453	HN	GLN	438	-8.665	-6.962	-31.749	0.00	H
ATOM	6454	CA	GLN	438	-8.350	-5.199	-30.551	92.20	C
ATOM	6455	HA	GLN	438	-7.807	-4.325	-30.802	0.00	H
ATOM	6456	CB	GLN	438	-9.846	-4.914	-30.670	92.42	C
ATOM	6457	HB2	GLN	438	-10.393	-5.780	-30.401	0.00	H
ATOM	6458	HB3	GLN	438	-10.106	-4.117	-30.023	0.00	H
ATOM	6459	CG	GLN	438	-10.269	-4.522	-32.073	93.31	C
ATOM	6460	HG2	GLN	438	-9.693	-3.695	-32.397	0.00	H
ATOM	6461	HG3	GLN	438	-10.115	-5.339	-32.729	0.00	H
ATOM	6462	CD	GLN	438	-11.733	-4.128	-32.161	93.66	C
ATOM	6463	OE1	GLN	438	-12.625	-4.912	-31.817	92.67	O
ATOM	6464	NE2	GLN	438	-11.988	-2.905	-32.627	93.99	N
ATOM	6465	HE21	GLN	438	-11.228	-2.299	-32.896	0.00	H
ATOM	6466	HE22	GLN	438	-12.941	-2.586	-32.711	0.00	H
ATOM	6467	C	GLN	438	-7.996	-5.422	-29.082	92.49	C
ATOM	6468	O	GLN	438	-8.536	-4.750	-28.200	92.71	O
ATOM	6469	N	LEU	439	-7.084	-6.355	-28.819	92.58	N
ATOM	6470	HN	LEU	439	-6.682	-6.865	-29.591	0.00	H
ATOM	6471	CA	LEU	439	-6.662	-6.649	-27.449	92.23	C
ATOM	6472	HA	LEU	439	-7.510	-6.895	-26.864	0.00	H
ATOM	6473	CB	LEU	439	-5.684	-7.831	-27.433	92.43	C
ATOM	6474	HB2	LEU	439	-4.854	-7.611	-28.052	0.00	H
ATOM	6475	HB3	LEU	439	-5.350	-8.000	-26.442	0.00	H
ATOM	6476	CG	LEU	439	-6.222	-9.180	-27.925	92.83	C
ATOM	6477	HG	LEU	439	-6.730	-9.043	-28.844	0.00	H
ATOM	6478	CD1	LEU	439	-5.067	-10.160	-28.130	92.84	C
ATOM	6479	HD11	LEU	439	-4.396	-9.769	-28.850	0.00	H
ATOM	6480	HD12	LEU	439	-4.557	-10.302	-27.213	0.00	H
ATOM	6481	HD13	LEU	439	-5.448	-11.088	-28.470	0.00	H
ATOM	6482	CD2	LEU	439	-7.235	-9.722	-26.919	92.22	C
ATOM	6483	HD21	LEU	439	-6.765	-9.851	-25.979	0.00	H
ATOM	6484	HD22	LEU	439	-8.037	-9.037	-26.821	0.00	H
ATOM	6485	HD23	LEU	439	-7.606	-10.654	-27.259	0.00	H
ATOM	6486	C	LEU	439	-5.986	-5.415	-26.876	91.93	C
ATOM	6487	O	LEU	439	-5.645	-5.357	-25.692	91.24	O
ATOM	6488	N	GLU	440	-5.809	-4.421	-27.737	92.26	N
ATOM	6489	HN	GLU	440	-6.138	-4.551	-28.682	0.00	H
ATOM	6490	CA	GLU	440	-5.164	-3.173	-27.357	92.85	C
ATOM	6491	HA	GLU	440	-4.570	-3.331	-26.495	0.00	H
ATOM	6492	CB	GLU	440	-4.277	-2.688	-28.509	93.72	C
ATOM	6493	HB2	GLU	440	-4.882	-2.256	-29.263	0.00	H
ATOM	6494	HB3	GLU	440	-3.593	-1.964	-28.148	0.00	H
ATOM	6495	CG	GLU	440	-3.454	-3.796	-29.170	95.11	C
ATOM	6496	HG2	GLU	440	-4.069	-4.642	-29.334	0.00	H
ATOM	6497	HG3	GLU	440	-3.076	-3.450	-30.097	0.00	H
ATOM	6498	CD	GLU	440	-2.261	-4.248	-28.323	95.84	C
ATOM	6499	OE1	GLU	440	-1.293	-3.459	-28.175	95.34	O1-
ATOM	6500	OE2	GLU	440	-2.296	-5.391	-27.808	96.31	O
ATOM	6501	C	GLU	440	-6.189	-2.091	-27.011	92.60	C
ATOM	6502	O	GLU	440	-6.427	-1.787	-25.836	92.29	O
ATOM	6503	N	LYS	441	-6.790	-1.529	-28.056	92.13	N
ATOM	6504	HN	LYS	441	-6.528	-1.881	-28.964	0.00	H
ATOM	6505	CA	LYS	441	-7.778	-0.461	-27.945	92.33	C
ATOM	6506	HA	LYS	441	-7.299	0.476	-28.060	0.00	H
ATOM	6507	CB	LYS	441	-8.844	-0.623	-29.036	92.62	C
ATOM	6508	HB2	LYS	441	-8.380	-0.609	-29.988	0.00	H
ATOM	6509	HB3	LYS	441	-9.349	-1.544	-28.902	0.00	H
ATOM	6510	CG	LYS	441	-9.899	0.484	-29.024	93.71	C
ATOM	6511	HG2	LYS	441	-10.300	0.579	-28.048	0.00	H
ATOM	6512	HG3	LYS	441	-9.453	1.400	-29.313	0.00	H
ATOM	6513	CD	LYS	441	-11.067	0.211	-29.984	94.26	C
ATOM	6514	HD2	LYS	441	-11.435	-0.769	-29.823	0.00	H
ATOM	6515	HD3	LYS	441	-11.841	0.912	-29.807	0.00	H
ATOM	6516	CE	LYS	441	-10.669	0.321	-31.457	94.82	C
ATOM	6517	HE2	LYS	441	-10.327	1.303	-31.658	0.00	H
ATOM	6518	HE3	LYS	441	-9.896	-0.372	-31.667	0.00	H
ATOM	6519	NZ	LYS	441	-11.832	0.027	-32.360	93.96	N1+
ATOM	6520	HZ1	LYS	441	-12.164	-0.910	-32.186	0.00	H
ATOM	6521	HZ2	LYS	441	-12.574	0.686	-32.178	0.00	H
ATOM	6522	HZ3	LYS	441	-11.539	0.107	-33.322	0.00	H

ATOM	6523	C	LYS	441	-8.466	-0.310	-26.580	92.69	C
ATOM	6524	O	LYS	441	-9.360	-1.088	-26.228	93.03	O
ATOM	6525	N	ALA	442	-8.040	0.698	-25.816	92.16	N
ATOM	6526	HN	ALA	442	-7.285	1.267	-26.170	0.00	H
ATOM	6527	CA	ALA	442	-8.627	0.992	-24.508	90.52	C
ATOM	6528	HA	ALA	442	-8.697	0.099	-23.943	0.00	H
ATOM	6529	CB	ALA	442	-7.762	1.992	-23.750	90.17	C
ATOM	6530	HB1	ALA	442	-6.794	1.586	-23.610	0.00	H
ATOM	6531	HB2	ALA	442	-7.691	2.890	-24.306	0.00	H
ATOM	6532	HB3	ALA	442	-8.200	2.194	-22.807	0.00	H
ATOM	6533	C	ALA	442	-9.998	1.592	-24.804	89.48	C
ATOM	6534	O	ALA	442	-10.121	2.470	-25.657	89.23	O
ATOM	6535	N	LEU	443	-11.027	1.119	-24.107	88.22	N
ATOM	6536	HN	LEU	443	-10.861	0.419	-23.400	0.00	H
ATOM	6537	CA	LEU	443	-12.384	1.600	-24.354	86.51	C
ATOM	6538	HA	LEU	443	-12.343	2.507	-24.899	0.00	H
ATOM	6539	CB	LEU	443	-13.139	0.546	-25.158	87.12	C
ATOM	6540	HB2	LEU	443	-13.165	-0.362	-24.613	0.00	H
ATOM	6541	HB3	LEU	443	-14.128	0.880	-25.336	0.00	H
ATOM	6542	CG	LEU	443	-12.458	0.291	-26.503	88.00	C
ATOM	6543	HG	LEU	443	-11.416	0.453	-26.407	0.00	H
ATOM	6544	CD1	LEU	443	-12.696	-1.148	-26.961	88.16	C
ATOM	6545	HD11	LEU	443	-12.299	-1.817	-26.243	0.00	H
ATOM	6546	HD12	LEU	443	-13.736	-1.318	-27.065	0.00	H
ATOM	6547	HD13	LEU	443	-12.218	-1.306	-27.893	0.00	H
ATOM	6548	CD2	LEU	443	-12.973	1.311	-27.518	88.39	C
ATOM	6549	HD21	LEU	443	-14.022	1.207	-27.622	0.00	H
ATOM	6550	HD22	LEU	443	-12.747	2.289	-27.181	0.00	H
ATOM	6551	HD23	LEU	443	-12.507	1.143	-28.454	0.00	H
ATOM	6552	C	LEU	443	-13.183	1.991	-23.115	84.73	C
ATOM	6553	O	LEU	443	-13.142	1.319	-22.085	84.70	O
ATOM	6554	N	ASP	444	-13.921	3.090	-23.253	82.70	N
ATOM	6555	HN	ASP	444	-13.883	3.526	-24.162	0.00	H
ATOM	6556	CA	ASP	444	-14.750	3.673	-22.195	80.10	C
ATOM	6557	HA	ASP	444	-14.145	3.897	-21.355	0.00	H
ATOM	6558	CB	ASP	444	-15.403	4.963	-22.721	80.28	C
ATOM	6559	HB2	ASP	444	-16.312	4.725	-23.209	0.00	H
ATOM	6560	HB3	ASP	444	-15.598	5.616	-21.910	0.00	H
ATOM	6561	CG	ASP	444	-14.517	5.706	-23.719	80.39	C
ATOM	6562	OD1	ASP	444	-13.522	6.345	-23.299	80.09	O
ATOM	6563	OD2	ASP	444	-14.814	5.633	-24.932	79.76	O1-
ATOM	6564	C	ASP	444	-15.843	2.758	-21.637	77.56	C
ATOM	6565	O	ASP	444	-16.463	1.987	-22.368	77.80	O
ATOM	6566	N	CYS	445	-16.073	2.856	-20.333	74.33	N
ATOM	6567	HN	CYS	445	-15.504	3.491	-19.794	0.00	H
ATOM	6568	CA	CYS	445	-17.114	2.076	-19.678	71.51	C
ATOM	6569	HA	CYS	445	-17.920	1.929	-20.349	0.00	H
ATOM	6570	CB	CYS	445	-16.601	0.677	-19.306	70.49	C
ATOM	6571	HB2	CYS	445	-17.419	0.061	-19.036	0.00	H
ATOM	6572	HB3	CYS	445	-16.099	0.253	-20.136	0.00	H
ATOM	6573	SG	CYS	445	-15.437	0.569	-17.928	67.13	S
ATOM	6574	HG	CYS	445	-15.114	-0.625	-17.748	0.00	H
ATOM	6575	C	CYS	445	-17.608	2.829	-18.441	70.43	C
ATOM	6576	O	CYS	445	-16.877	3.632	-17.855	70.20	O
ATOM	6577	N	GLN	446	-18.852	2.573	-18.056	68.63	N
ATOM	6578	HN	GLN	446	-19.385	1.895	-18.580	0.00	H
ATOM	6579	CA	GLN	446	-19.452	3.243	-16.910	67.70	C
ATOM	6580	HA	GLN	446	-18.978	4.178	-16.760	0.00	H
ATOM	6581	CB	GLN	446	-20.945	3.465	-17.169	67.78	C
ATOM	6582	HB2	GLN	446	-21.398	2.545	-17.433	0.00	H
ATOM	6583	HB3	GLN	446	-21.403	3.845	-16.293	0.00	H
ATOM	6584	CG	GLN	446	-21.249	4.450	-18.293	68.61	C
ATOM	6585	HG2	GLN	446	-20.457	4.439	-18.996	0.00	H
ATOM	6586	HG3	GLN	446	-22.151	4.171	-18.773	0.00	H
ATOM	6587	CD	GLN	446	-21.410	5.883	-17.792	68.51	C
ATOM	6588	OE1	GLN	446	-22.389	6.213	-17.113	67.99	O
ATOM	6589	NE2	GLN	446	-20.445	6.739	-18.123	68.43	N
ATOM	6590	HE21	GLN	446	-19.663	6.427	-18.679	0.00	H
ATOM	6591	HE22	GLN	446	-20.496	7.699	-17.818	0.00	H
ATOM	6592	C	GLN	446	-19.285	2.494	-15.594	66.52	C
ATOM	6593	O	GLN	446	-19.274	1.266	-15.563	66.87	O
ATOM	6594	N	ILE	447	-19.143	3.248	-14.509	64.93	N
ATOM	6595	HN	ILE	447	-19.114	4.248	-14.637	0.00	H
ATOM	6596	CA	ILE	447	-19.030	2.680	-13.167	63.80	C
ATOM	6597	HA	ILE	447	-19.555	1.761	-13.127	0.00	H

ATOM	6598	CB	ILE	447	-17.578	2.405	-12.751	63.49	C
ATOM	6599	HB	ILE	447	-16.995	3.275	-12.907	0.00	H
ATOM	6600	CG2	ILE	447	-17.531	2.022	-11.272	63.10	C
ATOM	6601	HG21	ILE	447	-17.919	2.816	-10.689	0.00	H
ATOM	6602	HG22	ILE	447	-18.113	1.151	-11.114	0.00	H
ATOM	6603	HG23	ILE	447	-16.528	1.833	-10.988	0.00	H
ATOM	6604	CG1	ILE	447	-17.004	1.267	-13.596	63.31	C
ATOM	6605	HG12	ILE	447	-17.612	0.407	-13.490	0.00	H
ATOM	6606	HG13	ILE	447	-16.981	1.560	-14.613	0.00	H
ATOM	6607	CD1	ILE	447	-15.595	0.866	-13.216	62.22	C
ATOM	6608	HD11	ILE	447	-14.948	1.697	-13.331	0.00	H
ATOM	6609	HD12	ILE	447	-15.580	0.544	-12.207	0.00	H
ATOM	6610	HD13	ILE	447	-15.271	0.077	-13.844	0.00	H
ATOM	6611	C	ILE	447	-19.648	3.669	-12.189	63.76	C
ATOM	6612	O	ILE	447	-18.987	4.596	-11.713	62.56	O
ATOM	6613	N	TYR	448	-20.927	3.456	-11.894	64.18	N
ATOM	6614	HN	TYR	448	-21.382	2.654	-12.304	0.00	H
ATOM	6615	CA	TYR	448	-21.668	4.338	-11.011	65.16	C
ATOM	6616	HA	TYR	448	-22.661	3.984	-10.910	0.00	H
ATOM	6617	CB	TYR	448	-21.016	4.388	-9.626	64.06	C
ATOM	6618	HB2	TYR	448	-20.000	4.672	-9.724	0.00	H
ATOM	6619	HB3	TYR	448	-21.523	5.095	-9.022	0.00	H
ATOM	6620	CG	TYR	448	-21.033	3.073	-8.870	63.93	C
ATOM	6621	CD1	TYR	448	-22.163	2.243	-8.886	62.94	C
ATOM	6622	HD1	TYR	448	-23.023	2.515	-9.475	0.00	H
ATOM	6623	CE1	TYR	448	-22.202	1.055	-8.147	61.25	C
ATOM	6624	HE1	TYR	448	-23.082	0.434	-8.172	0.00	H
ATOM	6625	CD2	TYR	448	-19.938	2.678	-8.095	64.34	C
ATOM	6626	HD2	TYR	448	-19.053	3.291	-8.062	0.00	H
ATOM	6627	CE2	TYR	448	-19.968	1.493	-7.355	63.51	C
ATOM	6628	HE2	TYR	448	-19.115	1.206	-6.763	0.00	H
ATOM	6629	CZ	TYR	448	-21.099	0.687	-7.385	62.47	C
ATOM	6630	OH	TYR	448	-21.108	-0.482	-6.653	62.71	O
ATOM	6631	HH	TYR	448	-21.955	-0.933	-6.776	0.00	H
ATOM	6632	C	TYR	448	-21.675	5.730	-11.657	66.44	C
ATOM	6633	O	TYR	448	-21.286	6.728	-11.046	66.64	O
ATOM	6634	N	GLY	449	-22.107	5.770	-12.914	67.27	N
ATOM	6635	HN	GLY	449	-22.397	4.909	-13.353	0.00	H
ATOM	6636	CA	GLY	449	-22.166	7.016	-13.653	68.44	C
ATOM	6637	HA2	GLY	449	-22.709	6.869	-14.550	0.00	H
ATOM	6638	HA3	GLY	449	-22.649	7.753	-13.065	0.00	H
ATOM	6639	C	GLY	449	-20.808	7.568	-14.036	69.58	C
ATOM	6640	O	GLY	449	-20.685	8.318	-15.003	70.29	O
ATOM	6641	N	ALA	450	-19.784	7.192	-13.279	70.95	N
ATOM	6642	HN	ALA	450	-19.962	6.560	-12.513	0.00	H
ATOM	6643	CA	ALA	450	-18.431	7.669	-13.531	72.87	C
ATOM	6644	HA	ALA	450	-18.463	8.691	-13.808	0.00	H
ATOM	6645	CB	ALA	450	-17.574	7.515	-12.263	72.46	C
ATOM	6646	HB1	ALA	450	-18.002	8.081	-11.477	0.00	H
ATOM	6647	HB2	ALA	450	-17.537	6.494	-11.984	0.00	H
ATOM	6648	HB3	ALA	450	-16.593	7.864	-12.456	0.00	H
ATOM	6649	C	ALA	450	-17.765	6.956	-14.703	74.06	C
ATOM	6650	O	ALA	450	-17.371	5.797	-14.594	74.30	O
ATOM	6651	N	CYS	451	-17.637	7.666	-15.819	75.97	N
ATOM	6652	HN	CYS	451	-17.995	8.609	-15.819	0.00	H
ATOM	6653	CA	CYS	451	-17.005	7.126	-17.017	78.30	C
ATOM	6654	HA	CYS	451	-17.408	6.170	-17.228	0.00	H
ATOM	6655	CB	CYS	451	-17.286	8.026	-18.224	78.74	C
ATOM	6656	HB2	CYS	451	-18.306	7.943	-18.496	0.00	H
ATOM	6657	HB3	CYS	451	-17.068	9.031	-17.973	0.00	H
ATOM	6658	SG	CYS	451	-16.290	7.596	-19.686	81.84	S
ATOM	6659	HG	CYS	451	-16.573	8.370	-20.626	0.00	H
ATOM	6660	C	CYS	451	-15.491	6.975	-16.862	79.05	C
ATOM	6661	O	CYS	451	-14.827	7.798	-16.233	78.93	O
ATOM	6662	N	TYR	452	-14.958	5.907	-17.444	80.42	N
ATOM	6663	HN	TYR	452	-15.583	5.274	-17.920	0.00	H
ATOM	6664	CA	TYR	452	-13.529	5.632	-17.413	81.95	C
ATOM	6665	HA	TYR	452	-13.014	6.482	-17.048	0.00	H
ATOM	6666	CB	TYR	452	-13.230	4.437	-16.496	80.30	C
ATOM	6667	HB2	TYR	452	-13.891	3.642	-16.725	0.00	H
ATOM	6668	HB3	TYR	452	-12.231	4.119	-16.645	0.00	H
ATOM	6669	CG	TYR	452	-13.390	4.743	-15.019	79.28	C
ATOM	6670	CD1	TYR	452	-12.585	5.697	-14.388	79.27	C
ATOM	6671	HD1	TYR	452	-11.828	6.219	-14.949	0.00	H
ATOM	6672	CE1	TYR	452	-12.744	5.993	-13.024	78.87	C

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ATOM   6673  HE1 TYR   452     -12.114   6.731 -12.556        0.00           H
ATOM   6674  CD2 TYR   452     -14.356   4.090 -14.254       79.21           C
ATOM   6675  HD2 TYR   452     -14.992   3.349 -14.708        0.00           H
ATOM   6676  CE2 TYR   452     -14.524   4.375 -12.896       78.48           C
ATOM   6677  HE2 TYR   452     -15.277   3.857 -12.326        0.00           H
ATOM   6678  CZ  TYR   452     -13.719   5.325 -12.289       78.43           C
ATOM   6679  OH  TYR   452     -13.899   5.610 -10.956       77.41           O
ATOM   6680  HH  TYR   452     -13.271   6.294 -10.685        0.00           H
ATOM   6681  C   TYR   452     -13.078   5.344 -18.846       83.63           C
ATOM   6682  O   TYR   452     -13.442   6.073 -19.770       83.99           O
ATOM   6683  N   SER   453     -12.292   4.284 -19.021       85.29           N
ATOM   6684  HN  SER   453     -12.056   3.759 -18.193        0.00           H
ATOM   6685  CA  SER   453     -11.773   3.864 -20.331       87.20           C
ATOM   6686  HA  SER   453     -12.535   3.362 -20.868        0.00           H
ATOM   6687  CB  SER   453     -11.308   5.076 -21.153       87.34           C
ATOM   6688  HB2 SER   453     -12.082   5.798 -21.186        0.00           H
ATOM   6689  HB3 SER   453     -10.449   5.500 -20.702        0.00           H
ATOM   6690  OG  SER   453     -10.983   4.696 -22.482       87.59           O
ATOM   6691  HG  SER   453     -10.694   5.474 -22.978        0.00           H
ATOM   6692  C   SER   453     -10.598   2.903 -20.098       87.90           C
ATOM   6693  O   SER   453      -9.445   3.320 -19.969       88.72           O
ATOM   6694  N   ILE   454     -10.901   1.610 -20.062       87.73           N
ATOM   6695  HN  ILE   454     -11.859   1.341 -20.231        0.00           H
ATOM   6696  CA  ILE   454      -9.896   0.592 -19.789       87.99           C
ATOM   6697  HA  ILE   454      -9.003   1.057 -19.462        0.00           H
ATOM   6698  CB  ILE   454     -10.425  -0.354 -18.688       87.97           C
ATOM   6699  HB  ILE   454     -11.229  -0.927 -19.071        0.00           H
ATOM   6700  CG2 ILE   454      -9.322  -1.302 -18.216       87.56           C
ATOM   6701 HG21 ILE   454      -8.983  -1.883 -19.033        0.00           H
ATOM   6702 HG22 ILE   454      -8.515  -0.738 -17.825        0.00           H
ATOM   6703 HG23 ILE   454      -9.704  -1.941 -17.463        0.00           H
ATOM   6704  CG1 ILE   454     -10.959   0.484 -17.520       88.19           C
ATOM   6705 HG12 ILE   454     -10.146   0.858 -16.953        0.00           H
ATOM   6706 HG13 ILE   454     -11.528   1.293 -17.897        0.00           H
ATOM   6707  CD1 ILE   454     -11.852  -0.272 -16.562       88.38           C
ATOM   6708 HD11 ILE   454     -12.695  -0.644 -17.084        0.00           H
ATOM   6709 HD12 ILE   454     -11.313  -1.080 -16.140        0.00           H
ATOM   6710 HD13 ILE   454     -12.174   0.379 -15.791        0.00           H
ATOM   6711  C   ILE   454      -9.453  -0.235 -20.992       88.52           C
ATOM   6712  O   ILE   454     -10.061  -0.188 -22.063       88.65           O
ATOM   6713  N   GLU   455      -8.369  -0.982 -20.794       88.76           N
ATOM   6714  HN  GLU   455      -7.929  -0.921 -19.888        0.00           H
ATOM   6715  CA  GLU   455      -7.814  -1.860 -21.815       89.23           C
ATOM   6716  HA  GLU   455      -8.161  -1.556 -22.768        0.00           H
ATOM   6717  CB  GLU   455      -6.285  -1.814 -21.816       89.91           C
ATOM   6718  HB2 GLU   455      -5.922  -2.114 -20.867        0.00           H
ATOM   6719  HB3 GLU   455      -5.913  -2.469 -22.560        0.00           H
ATOM   6720  CG  GLU   455      -5.633  -0.472 -22.094       90.37           C
ATOM   6721  HG2 GLU   455      -6.074  -0.036 -22.953        0.00           H
ATOM   6722  HG3 GLU   455      -5.774   0.168 -21.262        0.00           H
ATOM   6723  CD  GLU   455      -4.133  -0.625 -22.342       90.96           C
ATOM   6724  OE1 GLU   455      -3.487  -1.404 -21.600       91.32           O1-
ATOM   6725  OE2 GLU   455      -3.601   0.026 -23.272       90.79           O
ATOM   6726  C   GLU   455      -8.242  -3.283 -21.473       89.28           C
ATOM   6727  O   GLU   455      -8.422  -3.619 -20.302       89.47           O
ATOM   6728  N   PRO   456      -8.409  -4.142 -22.486       89.24           N
ATOM   6729  CD  PRO   456      -8.444  -3.871 -23.933       89.70           C
ATOM   6730  HD2 PRO   456      -8.802  -2.888 -24.100        0.00           H
ATOM   6731  HD3 PRO   456      -7.468  -3.963 -24.333        0.00           H
ATOM   6732  CA  PRO   456      -8.818  -5.520 -22.200       88.73           C
ATOM   6733  HA  PRO   456      -9.722  -5.513 -21.649        0.00           H
ATOM   6734  CB  PRO   456      -9.000  -6.125 -23.591       89.34           C
ATOM   6735  HB2 PRO   456      -8.089  -6.561 -23.908        0.00           H
ATOM   6736  HB3 PRO   456      -9.754  -6.868 -23.557        0.00           H
ATOM   6737  CG  PRO   456      -9.394  -4.943 -24.428       89.74           C
ATOM   6738  HG2 PRO   456      -9.259  -5.175 -25.452        0.00           H
ATOM   6739  HG3 PRO   456     -10.411  -4.708 -24.251        0.00           H
ATOM   6740  C   PRO   456      -7.769  -6.274 -21.383       88.02           C
ATOM   6741  O   PRO   456      -8.095  -6.972 -20.422       87.96           O
ATOM   6742  N   LEU   457      -6.507  -6.118 -21.770       87.33           N
ATOM   6743  HN  LEU   457      -6.325  -5.506 -22.551        0.00           H
ATOM   6744  CA  LEU   457      -5.399  -6.801 -21.102       86.52           C
ATOM   6745  HA  LEU   457      -5.511  -7.848 -21.214        0.00           H
ATOM   6746  CB  LEU   457      -4.070  -6.369 -21.719       87.00           C
ATOM   6747  HB2 LEU   457      -3.890  -5.350 -21.492        0.00           H
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ATOM   6748  HB3 LEU   457      -3.287  -6.962 -21.323        0.00           H
ATOM   6749  CG  LEU   457      -4.004  -6.504 -23.239       88.05           C
ATOM   6750  HG  LEU   457      -4.788  -5.944 -23.678        0.00           H
ATOM   6751  CD1 LEU   457      -2.656  -5.974 -23.729       88.70           C
ATOM   6752 HD11 LEU   457      -2.557  -4.955 -23.457        0.00           H
ATOM   6753 HD12 LEU   457      -1.874  -6.535 -23.287        0.00           H
ATOM   6754 HD13 LEU   457      -2.603  -6.064 -24.783        0.00           H
ATOM   6755  CD2 LEU   457      -4.212  -7.965 -23.641       87.60           C
ATOM   6756 HD21 LEU   457      -3.455  -8.563 -23.204        0.00           H
ATOM   6757 HD22 LEU   457      -5.160  -8.293 -23.302        0.00           H
ATOM   6758 HD23 LEU   457      -4.165  -8.051 -24.695        0.00           H
ATOM   6759  C   LEU   457      -5.327  -6.614 -19.591       85.41           C
ATOM   6760  O   LEU   457      -4.876  -7.509 -18.876       84.58           O
ATOM   6761  N   ASP   458      -5.775  -5.460 -19.107       84.06           N
ATOM   6762  HN  ASP   458      -6.150  -4.781 -19.753        0.00           H
ATOM   6763  CA  ASP   458      -5.734  -5.163 -17.677       83.56           C
ATOM   6764  HA  ASP   458      -4.785  -5.428 -17.289        0.00           H
ATOM   6765  CB  ASP   458      -5.975  -3.667 -17.452       83.76           C
ATOM   6766  HB2 ASP   458      -6.803  -3.352 -18.032        0.00           H
ATOM   6767  HB3 ASP   458      -6.175  -3.492 -16.427        0.00           H
ATOM   6768  CG  ASP   458      -4.780  -2.820 -17.846       84.39           C
ATOM   6769  OD1 ASP   458      -3.697  -3.013 -17.241       83.42           O
ATOM   6770  OD2 ASP   458      -4.919  -1.969 -18.755       84.16           O1-
ATOM   6771  C   ASP   458      -6.695  -5.961 -16.791       83.07           C
ATOM   6772  O   ASP   458      -6.401  -6.221 -15.616       83.02           O
ATOM   6773  N   LEU   459      -7.835  -6.350 -17.359       81.68           N
ATOM   6774  HN  LEU   459      -7.976  -6.112 -18.329        0.00           H
ATOM   6775  CA  LEU   459      -8.863  -7.094 -16.632       79.74           C
ATOM   6776  HA  LEU   459      -9.444  -6.422 -16.055        0.00           H
ATOM   6777  CB  LEU   459      -9.778  -7.831 -17.618       79.57           C
ATOM   6778  HB2 LEU   459      -9.218  -8.562 -18.141        0.00           H
ATOM   6779  HB3 LEU   459     -10.564  -8.302 -17.086        0.00           H
ATOM   6780  CG  LEU   459     -10.461  -6.992 -18.697       79.20           C
ATOM   6781  HG  LEU   459      -9.726  -6.496 -19.276        0.00           H
ATOM   6782  CD1 LEU   459     -11.282  -7.913 -19.584       78.67           C
ATOM   6783 HD11 LEU   459     -10.645  -8.629 -20.035        0.00           H
ATOM   6784 HD12 LEU   459     -12.012  -8.409 -18.998        0.00           H
ATOM   6785 HD13 LEU   459     -11.761  -7.343 -20.337        0.00           H
ATOM   6786  CD2 LEU   459     -11.346  -5.923 -18.064       79.68           C
ATOM   6787 HD21 LEU   459     -12.089  -6.387 -17.468        0.00           H
ATOM   6788 HD22 LEU   459     -10.754  -5.288 -17.458        0.00           H
ATOM   6789 HD23 LEU   459     -11.810  -5.352 -18.826        0.00           H
ATOM   6790  C   LEU   459      -8.354  -8.091 -15.588       78.71           C
ATOM   6791  O   LEU   459      -8.785  -8.062 -14.436       78.25           O
ATOM   6792  N   PRO   460      -7.433  -8.990 -15.976       77.48           N
ATOM   6793  CD  PRO   460      -6.814  -9.153 -17.304       76.53           C
ATOM   6794  HD2 PRO   460      -7.556  -9.057 -18.053        0.00           H
ATOM   6795  HD3 PRO   460      -6.074  -8.408 -17.442        0.00           H
ATOM   6796  CA  PRO   460      -6.904  -9.982 -15.030       76.88           C
ATOM   6797  HA  PRO   460      -7.647 -10.709 -14.828        0.00           H
ATOM   6798  CB  PRO   460      -5.746 -10.605 -15.806       76.31           C
ATOM   6799  HB2 PRO   460      -4.869 -10.031 -15.653        0.00           H
ATOM   6800  HB3 PRO   460      -5.584 -11.594 -15.464        0.00           H
ATOM   6801  CG  PRO   460      -6.239 -10.550 -17.214       76.12           C
ATOM   6802  HG2 PRO   460      -5.429 -10.705 -17.878        0.00           H
ATOM   6803  HG3 PRO   460      -6.967 -11.305 -17.363        0.00           H
ATOM   6804  C   PRO   460      -6.465  -9.414 -13.674       76.79           C
ATOM   6805  O   PRO   460      -6.901  -9.882 -12.619       76.06           O
ATOM   6806  N   GLN   461      -5.600  -8.404 -13.715       76.49           N
ATOM   6807  HN  GLN   461      -5.298  -8.078 -14.621        0.00           H
ATOM   6808  CA  GLN   461      -5.089  -7.770 -12.502       75.93           C
ATOM   6809  HA  GLN   461      -4.715  -8.513 -11.846        0.00           H
ATOM   6810  CB  GLN   461      -3.959  -6.793 -12.855       76.81           C
ATOM   6811  HB2 GLN   461      -4.370  -5.925 -13.301        0.00           H
ATOM   6812  HB3 GLN   461      -3.437  -6.524 -11.974        0.00           H
ATOM   6813  CG  GLN   461      -2.919  -7.352 -13.838       77.75           C
ATOM   6814  HG2 GLN   461      -1.952  -7.030 -13.550        0.00           H
ATOM   6815  HG3 GLN   461      -2.957  -8.410 -13.828        0.00           H
ATOM   6816  CD  GLN   461      -3.150  -6.893 -15.283       78.15           C
ATOM   6817  OE1 GLN   461      -2.967  -5.712 -15.619       77.64           O
ATOM   6818  NE2 GLN   461      -3.559  -7.827 -16.141       77.45           N
ATOM   6819 HE21 GLN   461      -3.696  -8.776 -15.826        0.00           H
ATOM   6820 HE22 GLN   461      -3.732  -7.585 -17.105        0.00           H
ATOM   6821  C   GLN   461      -6.206  -7.031 -11.766       75.29           C
ATOM   6822  O   GLN   461      -6.411  -7.224 -10.561       74.84           O
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ATOM	6823	N	ILE	462	-6.926	-6.186	-12.501	74.68	N
ATOM	6824	HN	ILE	462	-6.681	-6.089	-13.475	0.00	H
ATOM	6825	CA	ILE	462	-8.039	-5.412	-11.944	73.38	C
ATOM	6826	HA	ILE	462	-7.662	-4.682	-11.276	0.00	H
ATOM	6827	CB	ILE	462	-8.834	-4.698	-13.048	72.41	C
ATOM	6828	HB	ILE	462	-9.201	-5.413	-13.737	0.00	H
ATOM	6829	CG2	ILE	462	-10.000	-3.947	-12.431	71.66	C
ATOM	6830	HG21	ILE	462	-10.633	-4.630	-11.927	0.00	H
ATOM	6831	HG22	ILE	462	-9.634	-3.231	-11.742	0.00	H
ATOM	6832	HG23	ILE	462	-10.547	-3.456	-13.193	0.00	H
ATOM	6833	CG1	ILE	462	-7.912	-3.767	-13.838	71.82	C
ATOM	6834	HG12	ILE	462	-7.545	-3.007	-13.198	0.00	H
ATOM	6835	HG13	ILE	462	-7.099	-4.323	-14.228	0.00	H
ATOM	6836	CD1	ILE	462	-8.594	-3.085	-15.005	72.01	C
ATOM	6837	HD11	ILE	462	-8.957	-3.817	-15.679	0.00	H
ATOM	6838	HD12	ILE	462	-9.403	-2.501	-14.649	0.00	H
ATOM	6839	HD13	ILE	462	-7.900	-2.460	-15.503	0.00	H
ATOM	6840	C	ILE	462	-9.013	-6.306	-11.186	72.95	C
ATOM	6841	O	ILE	462	-9.348	-6.040	-10.029	73.12	O
ATOM	6842	N	ILE	463	-9.466	-7.364	-11.855	71.90	N
ATOM	6843	HN	ILE	463	-9.142	-7.503	-12.800	0.00	H
ATOM	6844	CA	ILE	463	-10.403	-8.307	-11.260	70.84	C
ATOM	6845	HA	ILE	463	-11.329	-7.823	-11.088	0.00	H
ATOM	6846	CB	ILE	463	-10.648	-9.519	-12.184	69.91	C
ATOM	6847	HB	ILE	463	-9.719	-9.949	-12.456	0.00	H
ATOM	6848	CG2	ILE	463	-11.495	-10.570	-11.463	68.70	C
ATOM	6849	HG21	ILE	463	-10.988	-10.895	-10.592	0.00	H
ATOM	6850	HG22	ILE	463	-12.427	-10.147	-11.192	0.00	H
ATOM	6851	HG23	ILE	463	-11.656	-11.396	-12.106	0.00	H
ATOM	6852	CG1	ILE	463	-11.344	-9.051	-13.465	68.40	C
ATOM	6853	HG12	ILE	463	-12.268	-8.597	-13.219	0.00	H
ATOM	6854	HG13	ILE	463	-10.728	-8.350	-13.965	0.00	H
ATOM	6855	CD1	ILE	463	-11.640	-10.156	-14.441	67.56	C
ATOM	6856	HD11	ILE	463	-10.735	-10.623	-14.731	0.00	H
ATOM	6857	HD12	ILE	463	-12.275	-10.870	-13.984	0.00	H
ATOM	6858	HD13	ILE	463	-12.119	-9.753	-15.295	0.00	H
ATOM	6859	C	ILE	463	-9.931	-8.801	-9.902	71.13	C
ATOM	6860	O	ILE	463	-10.734	-8.925	-8.976	71.03	O
ATOM	6861	N	GLU	464	-8.636	-9.072	-9.772	72.24	N
ATOM	6862	HN	GLU	464	-8.015	-8.951	-10.558	0.00	H
ATOM	6863	CA	GLU	464	-8.113	-9.544	-8.496	74.07	C
ATOM	6864	HA	GLU	464	-8.694	-10.362	-8.158	0.00	H
ATOM	6865	CB	GLU	464	-6.660	-10.001	-8.619	75.20	C
ATOM	6866	HB2	GLU	464	-6.617	-10.888	-9.195	0.00	H
ATOM	6867	HB3	GLU	464	-6.091	-9.244	-9.093	0.00	H
ATOM	6868	CG	GLU	464	-6.036	-10.285	-7.258	77.24	C
ATOM	6869	HG2	GLU	464	-6.114	-9.424	-6.647	0.00	H
ATOM	6870	HG3	GLU	464	-6.545	-11.092	-6.798	0.00	H
ATOM	6871	CD	GLU	464	-4.566	-10.658	-7.327	79.19	C
ATOM	6872	OE1	GLU	464	-4.257	-11.843	-7.590	79.90	O1-
ATOM	6873	OE2	GLU	464	-3.718	-9.760	-7.120	80.78	O
ATOM	6874	C	GLU	464	-8.196	-8.473	-7.409	74.83	C
ATOM	6875	O	GLU	464	-8.683	-8.734	-6.312	74.50	O
ATOM	6876	N	ARG	465	-7.719	-7.266	-7.700	75.19	N
ATOM	6877	HN	ARG	465	-7.325	-7.071	-8.608	0.00	H
ATOM	6878	CA	ARG	465	-7.771	-6.221	-6.691	75.15	C
ATOM	6879	HA	ARG	465	-7.270	-6.549	-5.817	0.00	H
ATOM	6880	CB	ARG	465	-7.101	-4.941	-7.184	76.83	C
ATOM	6881	HB2	ARG	465	-6.149	-5.173	-7.586	0.00	H
ATOM	6882	HB3	ARG	465	-7.701	-4.494	-7.933	0.00	H
ATOM	6883	CG	ARG	465	-6.903	-3.919	-6.072	79.32	C
ATOM	6884	HG2	ARG	465	-7.841	-3.515	-5.793	0.00	H
ATOM	6885	HG3	ARG	465	-6.459	-4.391	-5.234	0.00	H
ATOM	6886	CD	ARG	465	-6.000	-2.769	-6.503	80.92	C
ATOM	6887	HD2	ARG	465	-5.049	-3.149	-6.773	0.00	H
ATOM	6888	HD3	ARG	465	-6.431	-2.274	-7.334	0.00	H
ATOM	6889	NE	ARG	465	-5.816	-1.792	-5.433	82.69	N1+
ATOM	6890	HE	ARG	465	-6.279	-1.922	-4.546	0.00	H
ATOM	6891	CZ	ARG	465	-5.060	-0.702	-5.534	84.08	C
ATOM	6892	NH1	ARG	465	-4.414	-0.450	-6.664	84.40	N
ATOM	6893	HH11	ARG	465	-3.840	0.376	-6.744	0.00	H
ATOM	6894	HH12	ARG	465	-4.496	-1.084	-7.444	0.00	H
ATOM	6895	NH2	ARG	465	-4.954	0.137	-4.507	84.57	N
ATOM	6896	HH21	ARG	465	-4.380	0.963	-4.587	0.00	H
ATOM	6897	HH22	ARG	465	-5.448	-0.052	-3.648	0.00	H

ATOM	6898	C	ARG	465	-9.219	-5.942	-6.302	74.69	C
ATOM	6899	O	ARG	465	-9.513	-5.668	-5.133	75.31	O
ATOM	6900	N	LEU	466	-10.122	-6.029	-7.279	73.00	N
ATOM	6901	HN	LEU	466	-9.799	-6.259	-8.207	0.00	H
ATOM	6902	CA	LEU	466	-11.547	-5.802	-7.036	70.49	C
ATOM	6903	HA	LEU	466	-11.668	-4.957	-6.409	0.00	H
ATOM	6904	CB	LEU	466	-12.297	-5.550	-8.350	70.13	C
ATOM	6905	HB2	LEU	466	-12.089	-6.334	-9.031	0.00	H
ATOM	6906	HB3	LEU	466	-13.338	-5.514	-8.161	0.00	H
ATOM	6907	CG	LEU	466	-12.015	-4.275	-9.145	70.46	C
ATOM	6908	HG	LEU	466	-11.018	-4.294	-9.500	0.00	H
ATOM	6909	CD1	LEU	466	-12.970	-4.181	-10.331	69.00	C
ATOM	6910	HD11	LEU	466	-12.835	-5.022	-10.960	0.00	H
ATOM	6911	HD12	LEU	466	-13.969	-4.160	-9.979	0.00	H
ATOM	6912	HD13	LEU	466	-12.769	-3.296	-10.877	0.00	H
ATOM	6913	CD2	LEU	466	-12.192	-3.071	-8.240	71.19	C
ATOM	6914	HD21	LEU	466	-13.185	-3.048	-7.873	0.00	H
ATOM	6915	HD22	LEU	466	-11.517	-3.138	-7.427	0.00	H
ATOM	6916	HD23	LEU	466	-11.997	-2.186	-8.788	0.00	H
ATOM	6917	C	LEU	466	-12.205	-6.985	-6.326	69.36	C
ATOM	6918	O	LEU	466	-12.363	-6.980	-5.101	69.54	O
ATOM	6919	N	HIS	467	-12.572	-7.994	-7.117	67.27	N
ATOM	6920	HN	HIS	467	-12.360	-7.890	-8.098	0.00	H
ATOM	6921	CA	HIS	467	-13.246	-9.203	-6.638	64.65	C
ATOM	6922	HA	HIS	467	-14.013	-8.934	-5.960	0.00	H
ATOM	6923	CB	HIS	467	-13.843	-9.935	-7.820	59.18	C
ATOM	6924	HB2	HIS	467	-13.066	-10.354	-8.405	0.00	H
ATOM	6925	HB3	HIS	467	-14.479	-10.707	-7.472	0.00	H
ATOM	6926	CG	HIS	467	-14.649	-9.048	-8.705	54.08	C
ATOM	6927	CD2	HIS	467	-14.329	-8.413	-9.856	51.76	C
ATOM	6928	HD2	HIS	467	-13.354	-8.548	-10.292	0.00	H
ATOM	6929	ND1	HIS	467	-15.942	-8.681	-8.407	50.90	N1+
ATOM	6930	HD1	HIS	467	-16.390	-9.041	-7.578	0.00	H
ATOM	6931	CE1	HIS	467	-16.386	-7.859	-9.340	50.98	C
ATOM	6932	HE1	HIS	467	-17.386	-7.464	-9.278	0.00	H
ATOM	6933	NE2	HIS	467	-15.426	-7.679	-10.229	51.31	N
ATOM	6934	HE2	HIS	467	-15.398	-7.122	-11.070	0.00	H
ATOM	6935	C	HIS	467	-12.318	-10.126	-5.883	66.20	C
ATOM	6936	O	HIS	467	-12.751	-11.106	-5.269	65.92	O
ATOM	6937	N	GLY	468	-11.032	-9.812	-5.958	67.95	N
ATOM	6938	HN	GLY	468	-10.756	-9.021	-6.521	0.00	H
ATOM	6939	CA	GLY	468	-10.030	-10.581	-5.250	69.16	C
ATOM	6940	HA2	GLY	468	-9.075	-10.153	-5.414	0.00	H
ATOM	6941	HA3	GLY	468	-10.247	-10.574	-4.213	0.00	H
ATOM	6942	C	GLY	468	-9.836	-12.046	-5.575	69.41	C
ATOM	6943	O	GLY	468	-10.788	-12.821	-5.681	70.73	O
ATOM	6944	N	LEU	469	-8.569	-12.398	-5.755	68.97	N
ATOM	6945	HN	LEU	469	-7.899	-11.645	-5.708	0.00	H
ATOM	6946	CA	LEU	469	-8.116	-13.762	-6.007	68.37	C
ATOM	6947	HA	LEU	469	-7.353	-13.751	-6.741	0.00	H
ATOM	6948	CB	LEU	469	-7.579	-14.317	-4.679	69.43	C
ATOM	6949	HB2	LEU	469	-8.131	-15.179	-4.408	0.00	H
ATOM	6950	HB3	LEU	469	-6.557	-14.572	-4.791	0.00	H
ATOM	6951	CG	LEU	469	-7.661	-13.346	-3.477	69.74	C
ATOM	6952	HG	LEU	469	-8.622	-12.901	-3.448	0.00	H
ATOM	6953	CD1	LEU	469	-7.420	-14.092	-2.154	69.22	C
ATOM	6954	HD11	LEU	469	-8.155	-14.845	-2.035	0.00	H
ATOM	6955	HD12	LEU	469	-6.459	-14.536	-2.169	0.00	H
ATOM	6956	HD13	LEU	469	-7.481	-13.409	-1.347	0.00	H
ATOM	6957	CD2	LEU	469	-6.636	-12.214	-3.656	69.02	C
ATOM	6958	HD21	LEU	469	-5.662	-12.625	-3.710	0.00	H
ATOM	6959	HD22	LEU	469	-6.846	-11.686	-4.550	0.00	H
ATOM	6960	HD23	LEU	469	-6.695	-11.551	-2.832	0.00	H
ATOM	6961	C	LEU	469	-9.119	-14.760	-6.615	67.41	C
ATOM	6962	O	LEU	469	-9.114	-15.015	-7.825	65.99	O
ATOM	6963	N	SER	470	-9.961	-15.319	-5.744	66.45	N
ATOM	6964	HN	SER	470	-9.851	-15.005	-4.791	0.00	H
ATOM	6965	CA	SER	470	-10.988	-16.316	-6.075	65.82	C
ATOM	6966	HA	SER	470	-10.522	-17.233	-6.325	0.00	H
ATOM	6967	CB	SER	470	-11.907	-16.521	-4.864	66.14	C
ATOM	6968	HB2	SER	470	-12.524	-17.366	-5.028	0.00	H
ATOM	6969	HB3	SER	470	-11.319	-16.676	-3.997	0.00	H
ATOM	6970	OG	SER	470	-12.736	-15.388	-4.654	64.51	O
ATOM	6971	HG	SER	470	-13.304	-15.542	-3.887	0.00	H
ATOM	6972	C	SER	470	-11.877	-16.098	-7.304	65.13	C

ATOM	6973	O	SER	470	-12.650	-16.980	-7.671	64.05	O
ATOM	6974	N	ALA	471	-11.784	-14.937	-7.936	64.95	N
ATOM	6975	HN	ALA	471	-11.136	-14.239	-7.602	0.00	H
ATOM	6976	CA	ALA	471	-12.611	-14.664	-9.107	64.29	C
ATOM	6977	HA	ALA	471	-13.605	-14.976	-8.918	0.00	H
ATOM	6978	CB	ALA	471	-12.601	-13.167	-9.410	64.98	C
ATOM	6979	HB1	ALA	471	-12.985	-12.636	-8.578	0.00	H
ATOM	6980	HB2	ALA	471	-11.608	-12.852	-9.601	0.00	H
ATOM	6981	HB3	ALA	471	-13.202	-12.975	-10.260	0.00	H
ATOM	6982	C	ALA	471	-12.163	-15.459	-10.340	63.95	C
ATOM	6983	O	ALA	471	-12.658	-15.239	-11.449	64.07	O
ATOM	6984	N	PHE	472	-11.226	-16.381	-10.142	62.82	N
ATOM	6985	HN	PHE	472	-10.866	-16.503	-9.207	0.00	H
ATOM	6986	CA	PHE	472	-10.716	-17.207	-11.235	62.09	C
ATOM	6987	HA	PHE	472	-11.308	-17.053	-12.100	0.00	H
ATOM	6988	CB	PHE	472	-9.267	-16.845	-11.559	62.16	C
ATOM	6989	HB2	PHE	472	-8.646	-17.107	-10.742	0.00	H
ATOM	6990	HB3	PHE	472	-8.956	-17.373	-12.423	0.00	H
ATOM	6991	CG	PHE	472	-9.038	-15.391	-11.831	62.18	C
ATOM	6992	CD1	PHE	472	-9.653	-14.762	-12.906	62.70	C
ATOM	6993	HD1	PHE	472	-10.345	-15.308	-13.525	0.00	H
ATOM	6994	CD2	PHE	472	-8.154	-14.661	-11.044	62.65	C
ATOM	6995	HD2	PHE	472	-7.670	-15.128	-10.203	0.00	H
ATOM	6996	CE1	PHE	472	-9.387	-13.424	-13.200	61.93	C
ATOM	6997	HE1	PHE	472	-9.870	-12.951	-14.038	0.00	H
ATOM	6998	CE2	PHE	472	-7.882	-13.325	-11.328	62.39	C
ATOM	6999	HE2	PHE	472	-7.194	-12.772	-10.710	0.00	H
ATOM	7000	CZ	PHE	472	-8.499	-12.707	-12.409	62.14	C
ATOM	7001	HZ	PHE	472	-8.290	-11.675	-12.634	0.00	H
ATOM	7002	C	PHE	472	-10.751	-18.687	-10.859	61.28	C
ATOM	7003	O	PHE	472	-10.478	-19.557	-11.686	60.97	O
ATOM	7004	N	THR	473	-11.077	-18.972	-9.607	60.27	N
ATOM	7005	HN	THR	473	-11.305	-18.226	-8.967	0.00	H
ATOM	7006	CA	THR	473	-11.107	-20.350	-9.155	59.72	C
ATOM	7007	HA	THR	473	-10.995	-20.997	-9.986	0.00	H
ATOM	7008	CB	THR	473	-9.952	-20.615	-8.147	60.34	C
ATOM	7009	HB	THR	473	-9.804	-21.659	-8.046	0.00	H
ATOM	7010	OG1	THR	473	-10.282	-20.063	-6.865	59.58	O
ATOM	7011	HG1	THR	473	-9.559	-20.232	-6.245	0.00	H
ATOM	7012	CG2	THR	473	-8.651	-19.968	-8.649	59.51	C
ATOM	7013	HG21	THR	473	-8.392	-20.380	-9.589	0.00	H
ATOM	7014	HG22	THR	473	-8.792	-18.923	-8.748	0.00	H
ATOM	7015	HG23	THR	473	-7.873	-20.155	-7.955	0.00	H
ATOM	7016	C	THR	473	-12.443	-20.707	-8.516	59.19	C
ATOM	7017	O	THR	473	-12.511	-21.547	-7.617	58.71	O
ATOM	7018	N	LEU	474	-13.514	-20.069	-8.970	58.64	N
ATOM	7019	HN	LEU	474	-13.432	-19.377	-9.699	0.00	H
ATOM	7020	CA	LEU	474	-14.814	-20.377	-8.405	58.64	C
ATOM	7021	HA	LEU	474	-14.691	-20.767	-7.428	0.00	H
ATOM	7022	CB	LEU	474	-15.696	-19.125	-8.324	58.11	C
ATOM	7023	HB2	LEU	474	-15.714	-18.644	-9.268	0.00	H
ATOM	7024	HB3	LEU	474	-16.680	-19.404	-8.051	0.00	H
ATOM	7025	CG	LEU	474	-15.222	-18.084	-7.298	58.99	C
ATOM	7026	HG	LEU	474	-14.268	-17.720	-7.579	0.00	H
ATOM	7027	CD1	LEU	474	-16.200	-16.915	-7.235	58.97	C
ATOM	7028	HD11	LEU	474	-16.264	-16.456	-8.187	0.00	H
ATOM	7029	HD12	LEU	474	-17.156	-17.270	-6.950	0.00	H
ATOM	7030	HD13	LEU	474	-15.859	-16.208	-6.524	0.00	H
ATOM	7031	CD2	LEU	474	-15.088	-18.737	-5.926	58.15	C
ATOM	7032	HD21	LEU	474	-16.027	-19.123	-5.626	0.00	H
ATOM	7033	HD22	LEU	474	-14.382	-19.525	-5.978	0.00	H
ATOM	7034	HD23	LEU	474	-14.761	-18.016	-5.222	0.00	H
ATOM	7035	C	LEU	474	-15.491	-21.462	-9.216	59.08	C
ATOM	7036	O	LEU	474	-15.437	-21.473	-10.445	58.38	O
ATOM	7037	N	HIS	475	-16.104	-22.392	-8.500	59.65	N
ATOM	7038	HN	HIS	475	-16.066	-22.304	-7.496	0.00	H
ATOM	7039	CA	HIS	475	-16.812	-23.507	-9.105	60.96	C
ATOM	7040	HA	HIS	475	-17.182	-23.217	-10.054	0.00	H
ATOM	7041	CB	HIS	475	-15.881	-24.705	-9.283	60.06	C
ATOM	7042	HB2	HIS	475	-16.382	-25.464	-9.826	0.00	H
ATOM	7043	HB3	HIS	475	-15.015	-24.404	-9.813	0.00	H
ATOM	7044	CG	HIS	475	-15.434	-25.297	-7.986	60.11	C
ATOM	7045	CD2	HIS	475	-15.838	-26.408	-7.327	60.01	C
ATOM	7046	HD2	HIS	475	-16.549	-27.076	-7.783	0.00	H
ATOM	7047	ND1	HIS	475	-14.532	-24.667	-7.156	60.62	N1+

ATOM	7048	HD1	HIS	475	-14.092	-23.808	-7.449	0.00	H
ATOM	7049	CE1	HIS	475	-14.401	-25.362	-6.041	61.48	C
ATOM	7050	HE1	HIS	475	-13.734	-25.019	-5.268	0.00	H
ATOM	7051	NE2	HIS	475	-15.184	-26.423	-6.118	61.76	N
ATOM	7052	HE2	HIS	475	-15.349	-27.174	-5.464	0.00	H
ATOM	7053	C	HIS	475	-17.887	-23.874	-8.091	62.46	C
ATOM	7054	O	HIS	475	-17.963	-23.277	-7.009	62.89	O
ATOM	7055	N	SER	476	-18.697	-24.871	-8.435	63.25	N
ATOM	7056	HN	SER	476	-18.554	-25.310	-9.332	0.00	H
ATOM	7057	CA	SER	476	-19.766	-25.334	-7.559	63.84	C
ATOM	7058	HA	SER	476	-20.268	-26.148	-8.014	0.00	H
ATOM	7059	CB	SER	476	-19.189	-25.790	-6.212	64.65	C
ATOM	7060	HB2	SER	476	-18.429	-26.509	-6.379	0.00	H
ATOM	7061	HB3	SER	476	-18.781	-24.956	-5.703	0.00	H
ATOM	7062	OG	SER	476	-20.190	-26.373	-5.393	65.62	O
ATOM	7063	HG	SER	476	-19.798	-26.650	-4.553	0.00	H
ATOM	7064	C	SER	476	-20.780	-24.210	-7.351	63.62	C
ATOM	7065	O	SER	476	-21.253	-23.962	-6.232	63.18	O
ATOM	7066	N	TYR	477	-21.097	-23.521	-8.442	62.69	N
ATOM	7067	HN	TYR	477	-20.661	-23.760	-9.320	0.00	H
ATOM	7068	CA	TYR	477	-22.058	-22.436	-8.381	62.18	C
ATOM	7069	HA	TYR	477	-21.725	-21.708	-7.688	0.00	H
ATOM	7070	CB	TYR	477	-22.219	-21.776	-9.751	63.07	C
ATOM	7071	HB2	TYR	477	-22.303	-22.524	-10.496	0.00	H
ATOM	7072	HB3	TYR	477	-23.092	-21.176	-9.753	0.00	H
ATOM	7073	CG	TYR	477	-21.066	-20.880	-10.153	63.76	C
ATOM	7074	CD1	TYR	477	-19.916	-21.404	-10.745	63.32	C
ATOM	7075	HD1	TYR	477	-19.838	-22.463	-10.926	0.00	H
ATOM	7076	CE1	TYR	477	-18.853	-20.574	-11.111	63.11	C
ATOM	7077	HE1	TYR	477	-17.973	-20.995	-11.568	0.00	H
ATOM	7078	CD2	TYR	477	-21.127	-19.500	-9.933	64.21	C
ATOM	7079	HD2	TYR	477	-22.001	-19.065	-9.479	0.00	H
ATOM	7080	CE2	TYR	477	-20.074	-18.662	-10.290	63.96	C
ATOM	7081	HE2	TYR	477	-20.143	-17.603	-10.107	0.00	H
ATOM	7082	CZ	TYR	477	-18.943	-19.205	-10.880	63.97	C
ATOM	7083	OH	TYR	477	-17.915	-18.373	-11.247	64.44	O
ATOM	7084	HH	TYR	477	-17.207	-18.894	-11.651	0.00	H
ATOM	7085	C	TYR	477	-23.403	-22.973	-7.913	61.42	C
ATOM	7086	O	TYR	477	-23.732	-24.133	-8.140	60.81	O
ATOM	7087	N	SER	478	-24.175	-22.116	-7.254	61.02	N
ATOM	7088	HN	SER	478	-23.824	-21.182	-7.102	0.00	H
ATOM	7089	CA	SER	478	-25.492	-22.489	-6.756	58.86	C
ATOM	7090	HA	SER	478	-25.389	-23.230	-6.007	0.00	H
ATOM	7091	CB	SER	478	-26.192	-21.274	-6.163	58.05	C
ATOM	7092	HB2	SER	478	-25.744	-21.026	-5.236	0.00	H
ATOM	7093	HB3	SER	478	-26.103	-20.455	-6.829	0.00	H
ATOM	7094	OG	SER	478	-27.565	-21.558	-5.955	57.45	O
ATOM	7095	HG	SER	478	-28.001	-20.781	-5.579	0.00	H
ATOM	7096	C	SER	478	-26.406	-23.081	-7.825	58.21	C
ATOM	7097	O	SER	478	-26.325	-22.721	-9.001	57.33	O
ATOM	7098	N	PRO	479	-27.295	-24.003	-7.425	57.33	N
ATOM	7099	CD	PRO	479	-27.409	-24.685	-6.125	56.98	C
ATOM	7100	HD2	PRO	479	-26.448	-24.777	-5.689	0.00	H
ATOM	7101	HD3	PRO	479	-28.035	-24.121	-5.484	0.00	H
ATOM	7102	CA	PRO	479	-28.204	-24.598	-8.405	56.72	C
ATOM	7103	HA	PRO	479	-27.641	-25.045	-9.182	0.00	H
ATOM	7104	CB	PRO	479	-28.996	-25.603	-7.575	56.52	C
ATOM	7105	HB2	PRO	479	-29.853	-25.130	-7.171	0.00	H
ATOM	7106	HB3	PRO	479	-29.297	-26.410	-8.191	0.00	H
ATOM	7107	CG	PRO	479	-28.009	-26.011	-6.525	56.67	C
ATOM	7108	HG2	PRO	479	-28.518	-26.493	-5.731	0.00	H
ATOM	7109	HG3	PRO	479	-27.301	-26.677	-6.946	0.00	H
ATOM	7110	C	PRO	479	-29.083	-23.487	-8.963	55.96	C
ATOM	7111	O	PRO	479	-29.059	-23.200	-10.160	55.56	O
ATOM	7112	N	GLY	480	-29.842	-22.852	-8.074	55.09	N
ATOM	7113	HN	GLY	480	-29.807	-23.130	-7.105	0.00	H
ATOM	7114	CA	GLY	480	-30.714	-21.769	-8.487	55.08	C
ATOM	7115	HA2	GLY	480	-31.564	-22.168	-8.978	0.00	H
ATOM	7116	HA3	GLY	480	-31.023	-21.220	-7.636	0.00	H
ATOM	7117	C	GLY	480	-30.020	-20.815	-9.440	55.12	C
ATOM	7118	O	GLY	480	-30.607	-20.392	-10.438	56.07	O
ATOM	7119	N	GLU	481	-28.762	-20.496	-9.131	54.64	N
ATOM	7120	HN	GLU	481	-28.383	-20.922	-8.299	0.00	H
ATOM	7121	CA	GLU	481	-27.939	-19.583	-9.926	53.53	C
ATOM	7122	HA	GLU	481	-28.484	-18.696	-10.121	0.00	H

ATOM	7123	CB	GLU	481	-26.657	-19.234	-9.153	51.57	C
ATOM	7124	HB2	GLU	481	-26.913	-18.817	-8.214	0.00	H
ATOM	7125	HB3	GLU	481	-26.084	-20.112	-9.005	0.00	H
ATOM	7126	CG	GLU	481	-25.731	-18.219	-9.844	49.77	C
ATOM	7127	HG2	GLU	481	-24.904	-18.012	-9.216	0.00	H
ATOM	7128	HG3	GLU	481	-25.386	-18.623	-10.760	0.00	H
ATOM	7129	CD	GLU	481	-26.409	-16.890	-10.158	47.32	C
ATOM	7130	OE1	GLU	481	-27.220	-16.419	-9.328	45.91	O1-
ATOM	7131	OE2	GLU	481	-26.113	-16.311	-11.226	44.38	O
ATOM	7132	C	GLU	481	-27.582	-20.166	-11.295	53.90	C
ATOM	7133	O	GLU	481	-27.709	-19.486	-12.322	51.78	O
ATOM	7134	N	ILE	482	-27.130	-21.423	-11.294	54.76	N
ATOM	7135	HN	ILE	482	-27.045	-21.888	-10.402	0.00	H
ATOM	7136	CA	ILE	482	-26.763	-22.127	-12.524	54.19	C
ATOM	7137	HA	ILE	482	-25.957	-21.624	-12.992	0.00	H
ATOM	7138	CB	ILE	482	-26.328	-23.584	-12.250	53.97	C
ATOM	7139	HB	ILE	482	-27.079	-24.077	-11.689	0.00	H
ATOM	7140	CG2	ILE	482	-26.123	-24.313	-13.565	53.24	C
ATOM	7141	HG21	ILE	482	-27.029	-24.315	-14.113	0.00	H
ATOM	7142	HG22	ILE	482	-25.372	-23.822	-14.127	0.00	H
ATOM	7143	HG23	ILE	482	-25.825	-25.311	-13.373	0.00	H
ATOM	7144	CG1	ILE	482	-25.047	-23.615	-11.413	54.10	C
ATOM	7145	HG12	ILE	482	-24.261	-23.157	-11.954	0.00	H
ATOM	7146	HG13	ILE	482	-25.205	-23.090	-10.507	0.00	H
ATOM	7147	CD1	ILE	482	-24.593	-25.019	-11.052	53.46	C
ATOM	7148	HD11	ILE	482	-25.350	-25.501	-10.491	0.00	H
ATOM	7149	HD12	ILE	482	-24.406	-25.568	-11.938	0.00	H
ATOM	7150	HD13	ILE	482	-23.706	-24.966	-10.476	0.00	H
ATOM	7151	C	ILE	482	-27.978	-22.178	-13.435	54.14	C
ATOM	7152	O	ILE	482	-27.867	-22.034	-14.653	53.51	O
ATOM	7153	N	ASN	483	-29.138	-22.387	-12.826	54.46	N
ATOM	7154	HN	ASN	483	-29.142	-22.495	-11.823	0.00	H
ATOM	7155	CA	ASN	483	-30.381	-22.461	-13.568	55.76	C
ATOM	7156	HA	ASN	483	-30.283	-23.166	-14.352	0.00	H
ATOM	7157	CB	ASN	483	-31.519	-22.893	-12.648	58.31	C
ATOM	7158	HB2	ASN	483	-31.580	-22.228	-11.826	0.00	H
ATOM	7159	HB3	ASN	483	-32.432	-22.876	-13.184	0.00	H
ATOM	7160	CG	ASN	483	-31.319	-24.289	-12.108	60.48	C
ATOM	7161	OD1	ASN	483	-30.986	-25.212	-12.862	60.53	O
ATOM	7162	ND2	ASN	483	-31.522	-24.461	-10.796	61.82	N
ATOM	7163	HD21	ASN	483	-31.793	-23.678	-10.220	0.00	H
ATOM	7164	HD22	ASN	483	-31.404	-25.374	-10.383	0.00	H
ATOM	7165	C	ASN	483	-30.723	-21.138	-14.220	55.29	C
ATOM	7166	O	ASN	483	-30.885	-21.072	-15.438	56.09	O
ATOM	7167	N	ARG	484	-30.825	-20.084	-13.418	53.93	N
ATOM	7168	HN	ARG	484	-30.672	-20.190	-12.426	0.00	H
ATOM	7169	CA	ARG	484	-31.156	-18.778	-13.967	52.54	C
ATOM	7170	HA	ARG	484	-32.177	-18.762	-14.249	0.00	H
ATOM	7171	CB	ARG	484	-30.910	-17.680	-12.928	51.98	C
ATOM	7172	HB2	ARG	484	-31.492	-17.874	-12.065	0.00	H
ATOM	7173	HB3	ARG	484	-29.884	-17.666	-12.666	0.00	H
ATOM	7174	CG	ARG	484	-31.278	-16.286	-13.430	52.49	C
ATOM	7175	HG2	ARG	484	-30.548	-15.956	-14.122	0.00	H
ATOM	7176	HG3	ARG	484	-32.224	-16.320	-13.904	0.00	H
ATOM	7177	CD	ARG	484	-31.354	-15.263	-12.307	52.75	C
ATOM	7178	HD2	ARG	484	-31.489	-14.297	-12.718	0.00	H
ATOM	7179	HD3	ARG	484	-32.171	-15.494	-11.674	0.00	H
ATOM	7180	NE	ARG	484	-30.145	-15.239	-11.490	53.88	N1+
ATOM	7181	HE	ARG	484	-29.435	-15.944	-11.619	0.00	H
ATOM	7182	CZ	ARG	484	-29.898	-14.326	-10.555	55.13	C
ATOM	7183	NH1	ARG	484	-30.779	-13.360	-10.321	55.20	N
ATOM	7184	HH11	ARG	484	-30.592	-12.667	-9.612	0.00	H
ATOM	7185	HH12	ARG	484	-31.636	-13.319	-10.853	0.00	H
ATOM	7186	NH2	ARG	484	-28.773	-14.378	-9.853	55.85	N
ATOM	7187	HH21	ARG	484	-28.588	-13.684	-9.144	0.00	H
ATOM	7188	HH22	ARG	484	-28.103	-15.111	-10.028	0.00	H
ATOM	7189	C	ARG	484	-30.358	-18.499	-15.245	51.58	C
ATOM	7190	O	ARG	484	-30.898	-17.956	-16.213	51.70	O
ATOM	7191	N	VAL	485	-29.086	-18.895	-15.260	50.36	N
ATOM	7192	HN	VAL	485	-28.710	-19.355	-14.444	0.00	H
ATOM	7193	CA	VAL	485	-28.236	-18.674	-16.433	49.80	C
ATOM	7194	HA	VAL	485	-28.271	-17.652	-16.706	0.00	H
ATOM	7195	CB	VAL	485	-26.750	-19.055	-16.153	48.53	C
ATOM	7196	HB	VAL	485	-26.675	-20.101	-16.008	0.00	H
ATOM	7197	CG1	VAL	485	-25.874	-18.692	-17.356	45.56	C

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ATOM   7198 HG11 VAL   485     -26.212 -19.219 -18.210        0.00           H
ATOM   7199 HG12 VAL   485     -25.936 -17.650 -17.536        0.00           H
ATOM   7200 HG13 VAL   485     -24.869 -18.956 -17.153        0.00           H
ATOM   7201  CG2 VAL   485     -26.255 -18.343 -14.907       46.99           C
ATOM   7202 HG21 VAL   485     -26.325 -17.296 -15.048        0.00           H
ATOM   7203 HG22 VAL   485     -26.849 -18.628 -14.078        0.00           H
ATOM   7204 HG23 VAL   485     -25.246 -18.608 -14.726        0.00           H
ATOM   7205  C   VAL   485     -28.733 -19.485 -17.628       50.27           C
ATOM   7206  O   VAL   485     -29.118 -18.918 -18.652       49.51           O
ATOM   7207  N   ALA   486     -28.726 -20.810 -17.490       51.48           N
ATOM   7208  HN  ALA   486     -28.399 -21.193 -16.616        0.00           H
ATOM   7209  CA  ALA   486     -29.174 -21.705 -18.560       51.98           C
ATOM   7210  HA  ALA   486     -28.484 -21.669 -19.362        0.00           H
ATOM   7211  CB  ALA   486     -29.265 -23.128 -18.044       50.32           C
ATOM   7212  HB1 ALA   486     -28.312 -23.442 -17.704        0.00           H
ATOM   7213  HB2 ALA   486     -29.957 -23.170 -17.243        0.00           H
ATOM   7214  HB3 ALA   486     -29.589 -23.766 -18.824        0.00           H
ATOM   7215  C   ALA   486     -30.522 -21.259 -19.136       52.94           C
ATOM   7216  O   ALA   486     -30.680 -21.145 -20.358       53.11           O
ATOM   7217  N   SER   487     -31.489 -21.001 -18.261       53.10           N
ATOM   7218  HN  SER   487     -31.315 -21.120 -17.274        0.00           H
ATOM   7219  CA  SER   487     -32.791 -20.549 -18.720       54.33           C
ATOM   7220  HA  SER   487     -33.265 -21.327 -19.260        0.00           H
ATOM   7221  CB  SER   487     -33.674 -20.160 -17.536       54.70           C
ATOM   7222  HB2 SER   487     -34.001 -19.159 -17.653        0.00           H
ATOM   7223  HB3 SER   487     -34.514 -20.803 -17.496        0.00           H
ATOM   7224  OG  SER   487     -32.960 -20.267 -16.318       55.70           O
ATOM   7225  HG  SER   487     -33.537 -20.017 -15.583        0.00           H
ATOM   7226  C   SER   487     -32.587 -19.342 -19.625       56.00           C
ATOM   7227  O   SER   487     -33.024 -19.344 -20.775       56.68           O
ATOM   7228  N   CYS   488     -31.905 -18.324 -19.102       56.95           N
ATOM   7229  HN  CYS   488     -31.567 -18.419 -18.156        0.00           H
ATOM   7230  CA  CYS   488     -31.642 -17.100 -19.852       57.23           C
ATOM   7231  HA  CYS   488     -32.554 -16.590 -20.026        0.00           H
ATOM   7232  CB  CYS   488     -30.743 -16.161 -19.040       57.99           C
ATOM   7233  HB2 CYS   488     -31.174 -15.997 -18.087        0.00           H
ATOM   7234  HB3 CYS   488     -29.786 -16.601 -18.924        0.00           H
ATOM   7235  SG  CYS   488     -30.476 -14.509 -19.788       60.12           S
ATOM   7236  HG  CYS   488     -29.733 -13.831 -19.046        0.00           H
ATOM   7237  C   CYS   488     -30.992 -17.400 -21.197       57.24           C
ATOM   7238  O   CYS   488     -31.393 -16.841 -22.219       57.03           O
ATOM   7239  N   LEU   489     -30.000 -18.350 -21.216       57.47           N
ATOM   7240  HN  LEU   489     -29.807 -18.864 -20.352        0.00           H
ATOM   7241  CA  LEU   489     -29.294 -18.588 -22.453       57.35           C
ATOM   7242  HA  LEU   489     -28.952 -17.636 -22.859        0.00           H
ATOM   7243  CB  LEU   489     -28.153 -19.591 -22.257       56.47           C
ATOM   7244  HB2 LEU   489     -28.504 -20.420 -21.633        0.00           H
ATOM   7245  HB3 LEU   489     -27.885 -20.046 -23.218        0.00           H
ATOM   7246  CG  LEU   489     -26.900 -18.966 -21.625       56.40           C
ATOM   7247  HG  LEU   489     -27.185 -18.327 -20.782        0.00           H
ATOM   7248  CD1 LEU   489     -25.978 -20.058 -21.089       56.21           C
ATOM   7249 HD11 LEU   489     -26.489 -20.684 -20.352        0.00           H
ATOM   7250 HD12 LEU   489     -25.612 -20.703 -21.891        0.00           H
ATOM   7251 HD13 LEU   489     -25.109 -19.613 -20.598        0.00           H
ATOM   7252  CD2 LEU   489     -26.147 -18.123 -22.650       56.49           C
ATOM   7253 HD21 LEU   489     -25.929 -18.702 -23.548        0.00           H
ATOM   7254 HD22 LEU   489     -26.713 -17.232 -22.934        0.00           H
ATOM   7255 HD23 LEU   489     -25.181 -17.797 -22.276        0.00           H
ATOM   7256  C   LEU   489     -30.304 -19.179 -23.425       58.04           C
ATOM   7257  O   LEU   489     -30.183 -19.026 -24.639       57.53           O
ATOM   7258  N   ARG   490     -31.274 -19.970 -22.852       58.58           N
ATOM   7259  HN  ARG   490     -31.246 -20.147 -21.859        0.00           H
ATOM   7260  CA  ARG   490     -32.334 -20.543 -23.662       59.05           C
ATOM   7261  HA  ARG   490     -31.913 -21.015 -24.512        0.00           H
ATOM   7262  CB  ARG   490     -33.122 -21.577 -22.860       59.79           C
ATOM   7263  HB2 ARG   490     -33.129 -21.300 -21.838        0.00           H
ATOM   7264  HB3 ARG   490     -34.117 -21.620 -23.221        0.00           H
ATOM   7265  CG  ARG   490     -32.546 -22.976 -22.948       59.87           C
ATOM   7266  HG2 ARG   490     -32.388 -23.229 -23.964        0.00           H
ATOM   7267  HG3 ARG   490     -31.624 -23.012 -22.427        0.00           H
ATOM   7268  CD  ARG   490     -33.501 -23.991 -22.330       60.22           C
ATOM   7269  HD2 ARG   490     -34.499 -23.721 -22.558        0.00           H
ATOM   7270  HD3 ARG   490     -33.297 -24.953 -22.723        0.00           H
ATOM   7271  NE  ARG   490     -33.392 -24.080 -20.874       58.66           N1+
ATOM   7272  HE  ARG   490     -34.172 -23.813 -20.292        0.00           H
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ATOM	7273	CZ	ARG	490	-32.303	-24.502	-20.232	57.37	C
ATOM	7274	NH1	ARG	490	-31.221	-24.865	-20.914	55.70	N
ATOM	7275	HH11	ARG	490	-30.399	-25.184	-20.424	0.00	H
ATOM	7276	HH12	ARG	490	-31.222	-24.822	-21.922	0.00	H
ATOM	7277	NH2	ARG	490	-32.307	-24.593	-18.911	56.48	N
ATOM	7278	HH21	ARG	490	-31.483	-24.912	-18.425	0.00	H
ATOM	7279	HH22	ARG	490	-33.134	-24.343	-18.391	0.00	H
ATOM	7280	C	ARG	490	-33.270	-19.442	-24.160	59.14	C
ATOM	7281	O	ARG	490	-33.455	-19.286	-25.368	59.56	O
ATOM	7282	N	LYS	491	-33.847	-18.676	-23.234	58.71	N
ATOM	7283	HN	LYS	491	-33.647	-18.855	-22.261	0.00	H
ATOM	7284	CA	LYS	491	-34.754	-17.594	-23.605	58.52	C
ATOM	7285	HA	LYS	491	-35.651	-18.003	-23.992	0.00	H
ATOM	7286	CB	LYS	491	-35.103	-16.713	-22.400	59.15	C
ATOM	7287	HB2	LYS	491	-35.745	-17.246	-21.747	0.00	H
ATOM	7288	HB3	LYS	491	-34.215	-16.451	-21.886	0.00	H
ATOM	7289	CG	LYS	491	-35.819	-15.404	-22.796	59.76	C
ATOM	7290	HG2	LYS	491	-35.156	-14.793	-23.351	0.00	H
ATOM	7291	HG3	LYS	491	-36.668	-15.631	-23.387	0.00	H
ATOM	7292	CD	LYS	491	-36.303	-14.581	-21.592	59.46	C
ATOM	7293	HD2	LYS	491	-36.881	-13.762	-21.934	0.00	H
ATOM	7294	HD3	LYS	491	-36.895	-15.192	-20.962	0.00	H
ATOM	7295	CE	LYS	491	-35.149	-14.027	-20.760	58.88	C
ATOM	7296	HE2	LYS	491	-34.565	-14.829	-20.388	0.00	H
ATOM	7297	HE3	LYS	491	-34.546	-13.402	-21.365	0.00	H
ATOM	7298	NZ	LYS	491	-35.638	-13.226	-19.600	57.41	N1+
ATOM	7299	HZ1	LYS	491	-36.188	-12.450	-19.935	0.00	H
ATOM	7300	HZ2	LYS	491	-36.207	-13.809	-19.005	0.00	H
ATOM	7301	HZ3	LYS	491	-34.850	-12.878	-19.076	0.00	H
ATOM	7302	C	LYS	491	-34.156	-16.716	-24.688	58.45	C
ATOM	7303	O	LYS	491	-34.812	-16.411	-25.682	58.19	O
ATOM	7304	N	LEU	492	-32.880	-16.267	-24.431	58.71	N
ATOM	7305	HN	LEU	492	-32.366	-16.646	-23.626	0.00	H
ATOM	7306	CA	LEU	492	-32.220	-15.373	-25.372	59.49	C
ATOM	7307	HA	LEU	492	-32.918	-14.569	-25.602	0.00	H
ATOM	7308	CB	LEU	492	-30.878	-14.803	-24.888	58.41	C
ATOM	7309	HB2	LEU	492	-30.504	-15.362	-24.027	0.00	H
ATOM	7310	HB3	LEU	492	-30.136	-14.929	-25.679	0.00	H
ATOM	7311	CG	LEU	492	-30.883	-13.301	-24.569	56.75	C
ATOM	7312	HG	LEU	492	-31.128	-12.754	-25.486	0.00	H
ATOM	7313	CD1	LEU	492	-31.914	-12.939	-23.515	57.22	C
ATOM	7314	HD11	LEU	492	-32.925	-13.196	-23.838	0.00	H
ATOM	7315	HD12	LEU	492	-31.722	-13.464	-22.576	0.00	H
ATOM	7316	HD13	LEU	492	-31.890	-11.862	-23.322	0.00	H
ATOM	7317	CD2	LEU	492	-29.495	-12.852	-24.100	55.72	C
ATOM	7318	HD21	LEU	492	-29.217	-13.335	-23.158	0.00	H
ATOM	7319	HD22	LEU	492	-28.722	-13.097	-24.833	0.00	H
ATOM	7320	HD23	LEU	492	-29.468	-11.770	-23.942	0.00	H
ATOM	7321	C	LEU	492	-32.002	-16.087	-26.700	60.41	C
ATOM	7322	O	LEU	492	-31.930	-15.465	-27.762	61.14	O
ATOM	7323	N	GLY	493	-31.797	-17.434	-26.610	60.81	N
ATOM	7324	HN	GLY	493	-31.776	-17.873	-25.689	0.00	H
ATOM	7325	CA	GLY	493	-31.690	-18.265	-27.790	61.41	C
ATOM	7326	HA2	GLY	493	-32.123	-19.242	-27.577	0.00	H
ATOM	7327	HA3	GLY	493	-32.225	-17.813	-28.626	0.00	H
ATOM	7328	C	GLY	493	-30.241	-18.465	-28.185	61.35	C
ATOM	7329	O	GLY	493	-29.893	-18.739	-29.334	61.68	O
ATOM	7330	N	VAL	494	-29.398	-18.437	-27.113	60.36	N
ATOM	7331	HN	VAL	494	-29.845	-18.489	-26.189	0.00	H
ATOM	7332	CA	VAL	494	-27.968	-18.604	-27.186	59.49	C
ATOM	7333	HA	VAL	494	-27.635	-18.258	-28.163	0.00	H
ATOM	7334	CB	VAL	494	-27.265	-17.813	-26.057	59.21	C
ATOM	7335	HB	VAL	494	-27.320	-18.410	-25.145	0.00	H
ATOM	7336	CG1	VAL	494	-25.800	-17.550	-26.364	57.90	C
ATOM	7337	HG11	VAL	494	-25.253	-18.483	-26.428	0.00	H
ATOM	7338	HG12	VAL	494	-25.679	-17.019	-27.311	0.00	H
ATOM	7339	HG13	VAL	494	-25.322	-16.962	-25.575	0.00	H
ATOM	7340	CG2	VAL	494	-27.926	-16.475	-25.750	58.15	C
ATOM	7341	HG21	VAL	494	-28.034	-15.864	-26.651	0.00	H
ATOM	7342	HG22	VAL	494	-28.909	-16.638	-25.310	0.00	H
ATOM	7343	HG23	VAL	494	-27.356	-15.903	-25.011	0.00	H
ATOM	7344	C	VAL	494	-27.683	-20.112	-27.037	59.53	C
ATOM	7345	O	VAL	494	-28.454	-20.921	-26.517	58.97	O
ATOM	7346	N	PRO	495	-26.456	-20.545	-27.504	59.73	N
ATOM	7347	CD	PRO	495	-25.752	-20.047	-28.674	60.00	C

ATOM	7348	HD2	PRO	495	-26.450	-19.704	-29.440	0.00	H
ATOM	7349	HD3	PRO	495	-25.110	-19.215	-28.395	0.00	H
ATOM	7350	CA	PRO	495	-25.954	-21.851	-27.105	60.72	C
ATOM	7351	HA	PRO	495	-26.683	-22.593	-27.427	0.00	H
ATOM	7352	CB	PRO	495	-24.657	-22.007	-27.873	60.13	C
ATOM	7353	HB2	PRO	495	-23.809	-21.583	-27.325	0.00	H
ATOM	7354	HB3	PRO	495	-24.437	-23.055	-28.076	0.00	H
ATOM	7355	CG	PRO	495	-24.914	-21.221	-29.146	60.25	C
ATOM	7356	HG2	PRO	495	-23.996	-20.908	-29.650	0.00	H
ATOM	7357	HG3	PRO	495	-25.493	-21.833	-29.846	0.00	H
ATOM	7358	C	PRO	495	-25.739	-21.937	-25.584	61.69	C
ATOM	7359	O	PRO	495	-25.503	-20.942	-24.905	61.74	O
ATOM	7360	N	PRO	496	-25.842	-23.205	-25.031	62.10	N
ATOM	7361	CD	PRO	496	-26.094	-24.462	-25.712	61.71	C
ATOM	7362	HD2	PRO	496	-27.115	-24.438	-26.104	0.00	H
ATOM	7363	HD3	PRO	496	-25.407	-24.602	-26.548	0.00	H
ATOM	7364	CA	PRO	496	-25.692	-23.401	-23.590	62.31	C
ATOM	7365	HA	PRO	496	-26.234	-22.633	-23.038	0.00	H
ATOM	7366	CB	PRO	496	-26.284	-24.789	-23.357	62.46	C
ATOM	7367	HB2	PRO	496	-25.895	-25.304	-22.474	0.00	H
ATOM	7368	HB3	PRO	496	-27.373	-24.715	-23.254	0.00	H
ATOM	7369	CG	PRO	496	-25.944	-25.528	-24.643	62.92	C
ATOM	7370	HG2	PRO	496	-24.907	-25.875	-24.611	0.00	H
ATOM	7371	HG3	PRO	496	-26.584	-26.396	-24.822	0.00	H
ATOM	7372	C	PRO	496	-24.210	-23.373	-23.166	62.31	C
ATOM	7373	O	PRO	496	-23.301	-23.451	-23.984	62.60	O
ATOM	7374	N	LEU	497	-23.998	-23.385	-21.793	62.33	N
ATOM	7375	HN	LEU	497	-24.834	-23.372	-21.229	0.00	H
ATOM	7376	CA	LEU	497	-22.690	-23.271	-21.160	62.18	C
ATOM	7377	HA	LEU	497	-22.333	-22.279	-21.263	0.00	H
ATOM	7378	CB	LEU	497	-22.799	-23.617	-19.669	60.19	C
ATOM	7379	HB2	LEU	497	-23.231	-24.578	-19.560	0.00	H
ATOM	7380	HB3	LEU	497	-21.833	-23.612	-19.234	0.00	H
ATOM	7381	CG	LEU	497	-23.659	-22.653	-18.839	58.93	C
ATOM	7382	HG	LEU	497	-24.665	-22.708	-19.165	0.00	H
ATOM	7383	CD1	LEU	497	-23.593	-23.024	-17.362	56.95	C
ATOM	7384	HD11	LEU	497	-23.954	-24.011	-17.229	0.00	H
ATOM	7385	HD12	LEU	497	-22.590	-22.967	-17.028	0.00	H
ATOM	7386	HD13	LEU	497	-24.190	-22.352	-16.802	0.00	H
ATOM	7387	CD2	LEU	497	-23.161	-21.230	-19.037	58.12	C
ATOM	7388	HD21	LEU	497	-22.152	-21.162	-18.723	0.00	H
ATOM	7389	HD22	LEU	497	-23.230	-20.971	-20.062	0.00	H
ATOM	7390	HD23	LEU	497	-23.754	-20.565	-18.464	0.00	H
ATOM	7391	C	LEU	497	-21.639	-24.149	-21.827	63.20	C
ATOM	7392	O	LEU	497	-20.499	-23.725	-22.032	62.06	O
ATOM	7393	N	ARG	498	-22.011	-25.472	-22.091	65.17	N
ATOM	7394	HN	ARG	498	-22.995	-25.702	-21.965	0.00	H
ATOM	7395	CA	ARG	498	-21.074	-26.551	-22.457	66.71	C
ATOM	7396	HA	ARG	498	-20.339	-26.605	-21.645	0.00	H
ATOM	7397	CB	ARG	498	-21.810	-27.910	-22.613	69.19	C
ATOM	7398	HB2	ARG	498	-21.075	-28.714	-22.485	0.00	H
ATOM	7399	HB3	ARG	498	-22.551	-28.037	-21.815	0.00	H
ATOM	7400	CG	ARG	498	-22.481	-28.096	-23.989	72.91	C
ATOM	7401	HG2	ARG	498	-23.222	-27.309	-24.157	0.00	H
ATOM	7402	HG3	ARG	498	-21.733	-27.996	-24.780	0.00	H
ATOM	7403	CD	ARG	498	-23.128	-29.455	-24.202	75.95	C
ATOM	7404	HD2	ARG	498	-22.463	-30.243	-23.833	0.00	H
ATOM	7405	HD3	ARG	498	-24.088	-29.499	-23.677	0.00	H
ATOM	7406	NE	ARG	498	-23.356	-29.692	-25.636	77.45	N1+
ATOM	7407	HE	ARG	498	-23.124	-28.964	-26.308	0.00	H
ATOM	7408	CZ	ARG	498	-23.810	-30.843	-26.158	78.58	C
ATOM	7409	NH1	ARG	498	-24.170	-31.868	-25.376	79.84	N
ATOM	7410	HH11	ARG	498	-24.513	-32.733	-25.780	0.00	H
ATOM	7411	HH12	ARG	498	-24.128	-31.806	-24.368	0.00	H
ATOM	7412	NH2	ARG	498	-23.919	-31.002	-27.475	78.74	N
ATOM	7413	HH21	ARG	498	-24.264	-31.858	-27.884	0.00	H
ATOM	7414	HH22	ARG	498	-23.653	-30.275	-28.157	0.00	H
ATOM	7415	C	ARG	498	-20.317	-26.293	-23.777	66.42	C
ATOM	7416	O	ARG	498	-19.310	-26.912	-24.117	67.11	O
ATOM	7417	N	THR	499	-21.017	-25.454	-24.584	65.91	N
ATOM	7418	HN	THR	499	-21.811	-24.976	-24.154	0.00	H
ATOM	7419	CA	THR	499	-20.756	-25.096	-25.965	66.07	C
ATOM	7420	HA	THR	499	-20.084	-25.853	-26.378	0.00	H
ATOM	7421	CB	THR	499	-22.096	-25.066	-26.739	67.34	C
ATOM	7422	HB	THR	499	-22.850	-24.515	-26.173	0.00	H

ATOM	7423	OG1	THR	499	-22.598	-26.412	-26.915	68.02	O
ATOM	7424	HG1	THR	499	-23.506	-26.330	-27.274	0.00	H
ATOM	7425	CG2	THR	499	-21.982	-24.439	-28.115	68.08	C
ATOM	7426	HG21	THR	499	-21.830	-23.358	-28.063	0.00	H
ATOM	7427	HG22	THR	499	-21.150	-24.887	-28.664	0.00	H
ATOM	7428	HG23	THR	499	-22.893	-24.618	-28.690	0.00	H
ATOM	7429	C	THR	499	-20.029	-23.732	-25.998	65.70	C
ATOM	7430	O	THR	499	-19.516	-23.284	-27.025	66.01	O
ATOM	7431	N	TRP	500	-20.020	-23.057	-24.797	65.06	N
ATOM	7432	HN	TRP	500	-20.501	-23.494	-24.013	0.00	H
ATOM	7433	CA	TRP	500	-19.148	-21.923	-24.516	64.75	C
ATOM	7434	HA	TRP	500	-18.819	-21.526	-25.470	0.00	H
ATOM	7435	CB	TRP	500	-19.804	-20.823	-23.694	61.72	C
ATOM	7436	HB2	TRP	500	-20.236	-21.235	-22.781	0.00	H
ATOM	7437	HB3	TRP	500	-19.055	-20.097	-23.378	0.00	H
ATOM	7438	CG	TRP	500	-20.859	-20.108	-24.485	58.55	C
ATOM	7439	CD2	TRP	500	-20.639	-19.265	-25.625	56.88	C
ATOM	7440	CE2	TRP	500	-21.895	-18.892	-26.109	56.47	C
ATOM	7441	CE3	TRP	500	-19.488	-18.813	-26.303	56.23	C
ATOM	7442	HE3	TRP	500	-18.506	-19.094	-25.952	0.00	H
ATOM	7443	CD1	TRP	500	-22.225	-20.146	-24.259	57.62	C
ATOM	7444	HD1	TRP	500	-22.805	-20.653	-23.504	0.00	H
ATOM	7445	NE1	TRP	500	-22.833	-19.440	-25.260	56.28	N
ATOM	7446	HE1	TRP	500	-23.838	-19.373	-25.361	0.00	H
ATOM	7447	CZ2	TRP	500	-22.051	-18.119	-27.263	56.36	C
ATOM	7448	HZ2	TRP	500	-23.034	-17.860	-27.631	0.00	H
ATOM	7449	CZ3	TRP	500	-19.629	-18.013	-27.439	56.74	C
ATOM	7450	HZ3	TRP	500	-18.738	-17.657	-27.940	0.00	H
ATOM	7451	CH2	TRP	500	-20.895	-17.682	-27.918	55.82	C
ATOM	7452	HH2	TRP	500	-20.990	-17.073	-28.808	0.00	H
ATOM	7453	C	TRP	500	-17.897	-22.411	-23.831	66.62	C
ATOM	7454	O	TRP	500	-16.849	-21.792	-23.891	67.38	O
ATOM	7455	N	ARG	501	-18.022	-23.589	-23.163	67.71	N
ATOM	7456	HN	ARG	501	-18.962	-23.929	-23.023	0.00	H
ATOM	7457	CA	ARG	501	-16.895	-24.284	-22.547	68.98	C
ATOM	7458	HA	ARG	501	-16.380	-23.620	-21.902	0.00	H
ATOM	7459	CB	ARG	501	-17.392	-25.486	-21.735	69.07	C
ATOM	7460	HB2	ARG	501	-18.028	-25.149	-20.958	0.00	H
ATOM	7461	HB3	ARG	501	-17.928	-26.143	-22.369	0.00	H
ATOM	7462	CG	ARG	501	-16.288	-26.294	-21.087	68.65	C
ATOM	7463	HG2	ARG	501	-15.683	-26.732	-21.838	0.00	H
ATOM	7464	HG3	ARG	501	-15.695	-25.659	-20.482	0.00	H
ATOM	7465	CD	ARG	501	-16.833	-27.412	-20.208	69.86	C
ATOM	7466	HD2	ARG	501	-17.375	-26.993	-19.400	0.00	H
ATOM	7467	HD3	ARG	501	-17.474	-28.030	-20.781	0.00	H
ATOM	7468	NE	ARG	501	-15.742	-28.228	-19.674	71.52	N1+
ATOM	7469	HE	ARG	501	-15.665	-29.200	-19.934	0.00	H
ATOM	7470	CZ	ARG	501	-14.803	-27.783	-18.841	72.06	C
ATOM	7471	NH1	ARG	501	-14.815	-26.521	-18.432	72.77	N
ATOM	7472	HH11	ARG	501	-14.101	-26.188	-17.801	0.00	H
ATOM	7473	HH12	ARG	501	-15.538	-25.894	-18.752	0.00	H
ATOM	7474	NH2	ARG	501	-13.840	-28.596	-18.424	71.86	N
ATOM	7475	HH21	ARG	501	-13.130	-28.255	-17.793	0.00	H
ATOM	7476	HH22	ARG	501	-13.818	-29.555	-18.738	0.00	H
ATOM	7477	C	ARG	501	-15.947	-24.755	-23.648	70.27	C
ATOM	7478	O	ARG	501	-14.730	-24.826	-23.461	70.44	O
ATOM	7479	N	HID	502	-16.579	-25.153	-24.796	71.71	N
ATOM	7480	HN	HID	502	-17.583	-24.966	-24.832	0.00	H
ATOM	7481	CA	HID	502	-15.929	-25.797	-25.928	73.75	C
ATOM	7482	HA	HID	502	-15.183	-26.493	-25.533	0.00	H
ATOM	7483	CB	HID	502	-17.005	-26.493	-26.761	75.28	C
ATOM	7484	HB2	HID	502	-17.774	-26.921	-26.111	0.00	H
ATOM	7485	HB3	HID	502	-17.520	-25.782	-27.418	0.00	H
ATOM	7486	CG	HID	502	-16.493	-27.612	-27.589	76.78	C
ATOM	7487	CD2	HID	502	-16.004	-27.640	-28.902	77.01	C
ATOM	7488	HD2	HID	502	-15.850	-26.837	-29.607	0.00	H
ATOM	7489	ND1	HID	502	-16.507	-28.950	-27.134	77.42	N1+
ATOM	7490	HD1	HID	502	-16.848	-29.288	-26.229	0.00	H
ATOM	7491	CE1	HID	502	-16.033	-29.722	-28.120	77.99	C
ATOM	7492	HE1	HID	502	-15.901	-30.799	-28.128	0.00	H
ATOM	7493	NE2	HID	502	-15.714	-28.952	-29.200	78.05	N
ATOM	7494	C	HID	502	-15.213	-24.763	-26.811	74.30	C
ATOM	7495	O	HID	502	-14.389	-25.079	-27.669	73.94	O
ATOM	7496	N	ARG	503	-15.739	-23.506	-26.655	74.81	N
ATOM	7497	HN	ARG	503	-16.372	-23.395	-25.863	0.00	H

ATOM	7498	CA	ARG	503	-15.315	-22.299	-27.338	75.92	C
ATOM	7499	HA	ARG	503	-14.799	-22.614	-28.248	0.00	H
ATOM	7500	CB	ARG	503	-16.515	-21.411	-27.693	75.87	C
ATOM	7501	HB2	ARG	503	-17.393	-21.735	-27.132	0.00	H
ATOM	7502	HB3	ARG	503	-16.332	-20.374	-27.391	0.00	H
ATOM	7503	CG	ARG	503	-16.855	-21.408	-29.192	76.55	C
ATOM	7504	HG2	ARG	503	-16.056	-20.911	-29.751	0.00	H
ATOM	7505	HG3	ARG	503	-16.929	-22.431	-29.577	0.00	H
ATOM	7506	CD	ARG	503	-18.181	-20.687	-29.407	76.56	C
ATOM	7507	HD2	ARG	503	-18.987	-21.334	-29.051	0.00	H
ATOM	7508	HD3	ARG	503	-18.172	-19.762	-28.835	0.00	H
ATOM	7509	NE	ARG	503	-18.458	-20.306	-30.805	76.45	N1+
ATOM	7510	HE	ARG	503	-17.741	-20.361	-31.519	0.00	H
ATOM	7511	CZ	ARG	503	-19.673	-19.826	-31.175	77.30	C
ATOM	7512	NH1	ARG	503	-20.701	-19.783	-30.334	76.96	N
ATOM	7513	HH11	ARG	503	-21.624	-19.516	-30.690	0.00	H
ATOM	7514	HH12	ARG	503	-20.647	-20.093	-29.376	0.00	H
ATOM	7515	NH2	ARG	503	-19.875	-19.376	-32.404	77.67	N
ATOM	7516	HH21	ARG	503	-20.778	-18.979	-32.649	0.00	H
ATOM	7517	HH22	ARG	503	-19.138	-19.369	-33.099	0.00	H
ATOM	7518	C	ARG	503	-14.272	-21.504	-26.518	76.59	C
ATOM	7519	O	ARG	503	-13.424	-20.867	-27.136	75.80	O
ATOM	7520	N	ALA	504	-14.402	-21.557	-25.135	77.96	N
ATOM	7521	HN	ALA	504	-15.253	-22.041	-24.890	0.00	H
ATOM	7522	CA	ALA	504	-13.548	-21.008	-24.087	79.04	C
ATOM	7523	HA	ALA	504	-13.436	-19.965	-24.233	0.00	H
ATOM	7524	CB	ALA	504	-14.170	-21.256	-22.726	78.41	C
ATOM	7525	HB1	ALA	504	-15.119	-20.789	-22.681	0.00	H
ATOM	7526	HB2	ALA	504	-14.282	-22.298	-22.574	0.00	H
ATOM	7527	HB3	ALA	504	-13.543	-20.854	-21.973	0.00	H
ATOM	7528	C	ALA	504	-12.147	-21.605	-24.136	80.09	C
ATOM	7529	O	ALA	504	-11.185	-20.991	-23.672	80.59	O
ATOM	7530	N	ARG	505	-12.035	-22.803	-24.703	80.90	N
ATOM	7531	HN	ARG	505	-12.866	-23.250	-25.060	0.00	H
ATOM	7532	CA	ARG	505	-10.746	-23.469	-24.814	80.62	C
ATOM	7533	HA	ARG	505	-10.176	-23.282	-23.941	0.00	H
ATOM	7534	CB	ARG	505	-10.947	-24.979	-24.970	80.81	C
ATOM	7535	HB2	ARG	505	-11.372	-25.182	-25.918	0.00	H
ATOM	7536	HB3	ARG	505	-10.012	-25.470	-24.890	0.00	H
ATOM	7537	CG	ARG	505	-11.874	-25.582	-23.912	81.50	C
ATOM	7538	HG2	ARG	505	-11.741	-25.072	-22.994	0.00	H
ATOM	7539	HG3	ARG	505	-12.880	-25.484	-24.227	0.00	H
ATOM	7540	CD	ARG	505	-11.590	-27.069	-23.677	82.40	C
ATOM	7541	HD2	ARG	505	-12.253	-27.443	-22.941	0.00	H
ATOM	7542	HD3	ARG	505	-11.729	-27.602	-24.581	0.00	H
ATOM	7543	NE	ARG	505	-10.216	-27.297	-23.216	82.81	N1+
ATOM	7544	HE	ARG	505	-9.533	-26.557	-23.279	0.00	H
ATOM	7545	CZ	ARG	505	-9.770	-28.441	-22.701	82.74	C
ATOM	7546	NH1	ARG	505	-10.587	-29.479	-22.572	83.25	N
ATOM	7547	HH11	ARG	505	-10.245	-30.344	-22.181	0.00	H
ATOM	7548	HH12	ARG	505	-11.550	-29.403	-22.865	0.00	H
ATOM	7549	NH2	ARG	505	-8.504	-28.550	-22.312	82.33	N
ATOM	7550	HH21	ARG	505	-8.169	-29.418	-21.922	0.00	H
ATOM	7551	HH22	ARG	505	-7.878	-27.765	-22.407	0.00	H
ATOM	7552	C	ARG	505	-9.944	-22.900	-25.989	80.86	C
ATOM	7553	O	ARG	505	-8.754	-22.628	-25.850	80.64	O
ATOM	7554	N	SER	506	-10.604	-22.711	-27.132	81.73	N
ATOM	7555	HN	SER	506	-11.579	-22.968	-27.154	0.00	H
ATOM	7556	CA	SER	506	-9.966	-22.153	-28.328	82.50	C
ATOM	7557	HA	SER	506	-9.139	-22.756	-28.601	0.00	H
ATOM	7558	CB	SER	506	-10.956	-22.108	-29.502	82.50	C
ATOM	7559	HB2	SER	506	-10.960	-23.044	-29.996	0.00	H
ATOM	7560	HB3	SER	506	-11.927	-21.898	-29.137	0.00	H
ATOM	7561	OG	SER	506	-10.602	-21.101	-30.447	80.81	O
ATOM	7562	HG	SER	506	-11.243	-21.099	-31.171	0.00	H
ATOM	7563	C	SER	506	-9.460	-20.739	-28.061	83.68	C
ATOM	7564	O	SER	506	-8.373	-20.360	-28.504	83.87	O
ATOM	7565	N	VAL	507	-10.266	-19.955	-27.352	84.69	N
ATOM	7566	HN	VAL	507	-11.151	-20.327	-27.040	0.00	H
ATOM	7567	CA	VAL	507	-9.895	-18.586	-27.024	85.35	C
ATOM	7568	HA	VAL	507	-9.807	-18.021	-27.915	0.00	H
ATOM	7569	CB	VAL	507	-10.957	-17.907	-26.116	85.86	C
ATOM	7570	HB	VAL	507	-11.008	-18.417	-25.190	0.00	H
ATOM	7571	CG1	VAL	507	-10.549	-16.458	-25.822	86.23	C
ATOM	7572	HG11	VAL	507	-9.612	-16.448	-25.328	0.00	H

ATOM	7573	HG12	VAL	507	-10.474	-15.921	-26.732	0.00	H
ATOM	7574	HG13	VAL	507	-11.279	-16.004	-25.203	0.00	H
ATOM	7575	CG2	VAL	507	-12.327	-17.954	-26.793	85.83	C
ATOM	7576	HG21	VAL	507	-12.281	-17.442	-27.719	0.00	H
ATOM	7577	HG22	VAL	507	-12.604	-18.962	-26.960	0.00	H
ATOM	7578	HG23	VAL	507	-13.045	-17.490	-26.169	0.00	H
ATOM	7579	C	VAL	507	-8.556	-18.624	-26.298	84.95	C
ATOM	7580	O	VAL	507	-7.569	-18.045	-26.760	85.25	O
ATOM	7581	N	ARG	508	-8.533	-19.325	-25.170	84.53	N
ATOM	7582	HN	ARG	508	-9.390	-19.768	-24.875	0.00	H
ATOM	7583	CA	ARG	508	-7.326	-19.466	-24.367	84.90	C
ATOM	7584	HA	ARG	508	-7.154	-18.571	-23.828	0.00	H
ATOM	7585	CB	ARG	508	-7.489	-20.625	-23.381	84.51	C
ATOM	7586	HB2	ARG	508	-8.321	-20.439	-22.752	0.00	H
ATOM	7587	HB3	ARG	508	-7.646	-21.525	-23.917	0.00	H
ATOM	7588	CG	ARG	508	-6.289	-20.849	-22.477	84.40	C
ATOM	7589	HG2	ARG	508	-5.402	-20.817	-23.054	0.00	H
ATOM	7590	HG3	ARG	508	-6.257	-20.091	-21.738	0.00	H
ATOM	7591	CD	ARG	508	-6.395	-22.199	-21.801	84.93	C
ATOM	7592	HD2	ARG	508	-7.372	-22.584	-21.934	0.00	H
ATOM	7593	HD3	ARG	508	-5.692	-22.865	-22.230	0.00	H
ATOM	7594	NE	ARG	508	-6.130	-22.124	-20.368	85.10	N1+
ATOM	7595	HE	ARG	508	-5.776	-21.270	-19.964	0.00	H
ATOM	7596	CZ	ARG	508	-6.327	-23.132	-19.525	85.39	C
ATOM	7597	NH1	ARG	508	-6.789	-24.287	-19.983	84.44	N
ATOM	7598	HH11	ARG	508	-6.941	-25.057	-19.349	0.00	H
ATOM	7599	HH12	ARG	508	-6.989	-24.396	-20.966	0.00	H
ATOM	7600	NH2	ARG	508	-6.075	-22.980	-18.227	86.34	N
ATOM	7601	HH21	ARG	508	-6.226	-23.748	-17.590	0.00	H
ATOM	7602	HH22	ARG	508	-5.733	-22.097	-17.880	0.00	H
ATOM	7603	C	ARG	508	-6.106	-19.729	-25.251	85.26	C
ATOM	7604	O	ARG	508	-5.188	-18.904	-25.330	85.54	O
ATOM	7605	N	ALA	509	-6.116	-20.885	-25.913	84.74	N
ATOM	7606	HN	ALA	509	-6.920	-21.482	-25.787	0.00	H
ATOM	7607	CA	ALA	509	-5.030	-21.302	-26.790	83.86	C
ATOM	7608	HA	ALA	509	-4.187	-21.568	-26.206	0.00	H
ATOM	7609	CB	ALA	509	-5.470	-22.500	-27.615	83.57	C
ATOM	7610	HB1	ALA	509	-5.726	-23.299	-26.969	0.00	H
ATOM	7611	HB2	ALA	509	-6.312	-22.236	-28.200	0.00	H
ATOM	7612	HB3	ALA	509	-4.678	-22.800	-28.251	0.00	H
ATOM	7613	C	ALA	509	-4.553	-20.179	-27.706	83.69	C
ATOM	7614	O	ALA	509	-3.398	-19.757	-27.627	83.40	O
ATOM	7615	N	LYS	510	-5.444	-19.694	-28.566	83.73	N
ATOM	7616	HN	LYS	510	-6.373	-20.088	-28.565	0.00	H
ATOM	7617	CA	LYS	510	-5.108	-18.619	-29.496	84.36	C
ATOM	7618	HA	LYS	510	-4.438	-18.984	-30.231	0.00	H
ATOM	7619	CB	LYS	510	-6.372	-18.098	-30.187	83.14	C
ATOM	7620	HB2	LYS	510	-7.057	-17.753	-29.457	0.00	H
ATOM	7621	HB3	LYS	510	-6.117	-17.301	-30.836	0.00	H
ATOM	7622	CG	LYS	510	-7.092	-19.144	-31.021	81.26	C
ATOM	7623	HG2	LYS	510	-6.382	-19.719	-31.556	0.00	H
ATOM	7624	HG3	LYS	510	-7.653	-19.778	-30.385	0.00	H
ATOM	7625	CD	LYS	510	-8.043	-18.506	-32.021	79.65	C
ATOM	7626	HD2	LYS	510	-8.788	-17.962	-31.502	0.00	H
ATOM	7627	HD3	LYS	510	-7.503	-17.850	-32.653	0.00	H
ATOM	7628	CE	LYS	510	-8.724	-19.559	-32.884	78.22	C
ATOM	7629	HE2	LYS	510	-7.995	-20.220	-33.275	0.00	H
ATOM	7630	HE3	LYS	510	-9.416	-20.104	-32.296	0.00	H
ATOM	7631	NZ	LYS	510	-9.466	-18.959	-34.031	76.74	N1+
ATOM	7632	HZ1	LYS	510	-10.177	-18.334	-33.682	0.00	H
ATOM	7633	HZ2	LYS	510	-8.824	-18.445	-34.615	0.00	H
ATOM	7634	HZ3	LYS	510	-9.899	-19.692	-34.572	0.00	H
ATOM	7635	C	LYS	510	-4.383	-17.458	-28.809	85.94	C
ATOM	7636	O	LYS	510	-3.453	-16.871	-29.375	86.20	O
ATOM	7637	N	LEU	511	-4.809	-17.145	-27.586	87.27	N
ATOM	7638	HN	LEU	511	-5.568	-17.690	-27.205	0.00	H
ATOM	7639	CA	LEU	511	-4.221	-16.060	-26.800	88.20	C
ATOM	7640	HA	LEU	511	-3.964	-15.258	-27.442	0.00	H
ATOM	7641	CB	LEU	511	-5.222	-15.564	-25.755	87.87	C
ATOM	7642	HB2	LEU	511	-5.714	-16.393	-25.316	0.00	H
ATOM	7643	HB3	LEU	511	-4.709	-15.020	-25.005	0.00	H
ATOM	7644	CG	LEU	511	-6.346	-14.637	-26.218	88.26	C
ATOM	7645	HG	LEU	511	-6.894	-15.106	-26.993	0.00	H
ATOM	7646	CD1	LEU	511	-7.255	-14.362	-25.022	88.09	C
ATOM	7647	HD11	LEU	511	-7.657	-15.275	-24.667	0.00	H

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ATOM   7648 HD12 LEU   511      -6.694 -13.900 -24.251   0.00           H
ATOM   7649 HD13 LEU   511      -8.044 -13.720 -25.318   0.00           H
ATOM   7650  CD2 LEU   511      -5.772 -13.329 -26.781  87.68           C
ATOM   7651 HD21 LEU   511      -5.210 -12.838 -26.030   0.00           H
ATOM   7652 HD22 LEU   511      -5.144 -13.545 -27.606   0.00           H
ATOM   7653 HD23 LEU   511      -6.565 -12.702 -27.096   0.00           H
ATOM   7654  C   LEU   511      -2.917 -16.438 -26.098  89.05           C
ATOM   7655  O   LEU   511      -2.012 -15.609 -25.961  89.25           O
ATOM   7656  N   LEU   512      -2.830 -17.687 -25.645  89.71           N
ATOM   7657  HN  LEU   512      -3.618 -18.301 -25.784   0.00           H
ATOM   7658  CA  LEU   512      -1.639 -18.174 -24.964  89.67           C
ATOM   7659  HA  LEU   512      -1.409 -17.532 -24.154   0.00           H
ATOM   7660  CB  LEU   512      -1.877 -19.589 -24.431  88.12           C
ATOM   7661 HB2 LEU   512      -2.915 -19.797 -24.433   0.00           H
ATOM   7662 HB3 LEU   512      -1.376 -20.288 -25.049   0.00           H
ATOM   7663  CG  LEU   512      -1.373 -19.798 -23.005  86.90           C
ATOM   7664  HG  LEU   512      -0.322 -19.674 -22.981   0.00           H
ATOM   7665 CD1 LEU   512      -2.024 -18.779 -22.074  86.47           C
ATOM   7666 HD11 LEU   512      -1.776 -17.800 -22.394   0.00           H
ATOM   7667 HD12 LEU   512      -3.076 -18.902 -22.096   0.00           H
ATOM   7668 HD13 LEU   512      -1.672 -18.928 -21.086   0.00           H
ATOM   7669  CD2 LEU   512      -1.684 -21.210 -22.564  85.84           C
ATOM   7670 HD21 LEU   512      -2.731 -21.367 -22.596   0.00           H
ATOM   7671 HD22 LEU   512      -1.204 -21.896 -23.213   0.00           H
ATOM   7672 HD23 LEU   512      -1.335 -21.356 -21.575   0.00           H
ATOM   7673  C   LEU   512      -0.469 -18.163 -25.948  90.79           C
ATOM   7674  O   LEU   512       0.688 -18.036 -25.546  90.71           O
ATOM   7675  N   SER   513      -0.792 -18.290 -27.238  91.95           N
ATOM   7676  HN  SER   513      -1.771 -18.404 -27.454   0.00           H
ATOM   7677  CA  SER   513       0.198 -18.270 -28.317  92.92           C
ATOM   7678  HA  SER   513       0.911 -19.036 -28.156   0.00           H
ATOM   7679  CB  SER   513      -0.491 -18.499 -29.672  92.90           C
ATOM   7680 HB2 SER   513      -0.841 -17.574 -30.051   0.00           H
ATOM   7681 HB3 SER   513       0.202 -18.920 -30.353   0.00           H
ATOM   7682  OG  SER   513      -1.600 -19.382 -29.565  93.37           O
ATOM   7683  HG  SER   513      -2.004 -19.499 -30.436   0.00           H
ATOM   7684  C   SER   513       0.835 -16.875 -28.292  94.09           C
ATOM   7685  O   SER   513       1.986 -16.681 -28.694  93.91           O
ATOM   7686  N   GLN   514       0.055 -15.911 -27.804  95.50           N
ATOM   7687  HN  GLN   514      -0.873 -16.177 -27.509   0.00           H
ATOM   7688  CA  GLN   514       0.488 -14.524 -27.687  95.98           C
ATOM   7689  HA  GLN   514       1.057 -14.259 -28.540   0.00           H
ATOM   7690  CB  GLN   514      -0.723 -13.589 -27.587  96.02           C
ATOM   7691 HB2 GLN   514      -1.421 -13.833 -28.345   0.00           H
ATOM   7692 HB3 GLN   514      -1.179 -13.702 -26.638   0.00           H
ATOM   7693  CG  GLN   514      -0.396 -12.115 -27.747  95.77           C
ATOM   7694 HG2 GLN   514      -0.840 -11.567 -26.957   0.00           H
ATOM   7695 HG3 GLN   514       0.654 -11.982 -27.722   0.00           H
ATOM   7696  CD  GLN   514      -0.911 -11.542 -29.063  95.50           C
ATOM   7697 OE1 GLN   514      -1.499 -12.256 -29.880  94.97           O
ATOM   7698 NE2 GLN   514      -0.693 -10.245 -29.269  95.06           N
ATOM   7699 HE21 GLN   514      -0.208  -9.698 -28.574   0.00           H
ATOM   7700 HE22 GLN   514      -1.013  -9.809 -30.121   0.00           H
ATOM   7701  C   GLN   514       1.357 -14.400 -26.445  96.50           C
ATOM   7702  O   GLN   514       1.063 -14.962 -25.388  95.97           O
ATOM   7703  N   GLY   515       2.434 -13.646 -26.594  97.50           N
ATOM   7704  HN  GLY   515       2.606 -13.190 -27.477   0.00           H
ATOM   7705  CA  GLY   515       3.361 -13.474 -25.500  98.39           C
ATOM   7706 HA2 GLY   515       3.338 -14.332 -24.880   0.00           H
ATOM   7707 HA3 GLY   515       4.339 -13.342 -25.884   0.00           H
ATOM   7708  C   GLY   515       3.068 -12.287 -24.621  98.87           C
ATOM   7709  O   GLY   515       2.838 -11.177 -25.096  99.23           O
ATOM   7710  N   GLY   516       3.069 -12.518 -23.319  98.98           N
ATOM   7711  HN  GLY   516       3.232 -13.444 -22.953   0.00           H
ATOM   7712  CA  GLY   516       2.831 -11.418 -22.418  98.92           C
ATOM   7713 HA2 GLY   516       3.442 -11.526 -21.560   0.00           H
ATOM   7714 HA3 GLY   516       3.064 -10.507 -22.904   0.00           H
ATOM   7715  C   GLY   516       1.405 -11.315 -21.939  98.80           C
ATOM   7716  O   GLY   516       0.867 -12.271 -21.378  98.84           O
ATOM   7717  N   ARG   517       0.807 -10.144 -22.169  98.49           N
ATOM   7718  HN  ARG   517       1.357  -9.457 -22.662   0.00           H
ATOM   7719  CA  ARG   517      -0.563  -9.825 -21.752  97.94           C
ATOM   7720  HA  ARG   517      -0.585  -9.662 -20.706   0.00           H
ATOM   7721  CB  ARG   517      -1.071  -8.554 -22.464  98.39           C
ATOM   7722 HB2 ARG   517      -1.502  -8.819 -23.395   0.00           H
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ATOM	7723	HB3	ARG	517	-1.800	-8.079	-21.860	0.00	H
ATOM	7724	CG	ARG	517	-0.008	-7.502	-22.765	98.55	C
ATOM	7725	HG2	ARG	517	-0.478	-6.588	-23.019	0.00	H
ATOM	7726	HG3	ARG	517	0.601	-7.360	-21.910	0.00	H
ATOM	7727	CD	ARG	517	0.882	-7.933	-23.931	98.25	C
ATOM	7728	HD2	ARG	517	0.616	-8.912	-24.235	0.00	H
ATOM	7729	HD3	ARG	517	0.751	-7.264	-24.741	0.00	H
ATOM	7730	NE	ARG	517	2.291	-7.932	-23.554	97.92	N1+
ATOM	7731	HE	ARG	517	2.819	-8.792	-23.572	0.00	H
ATOM	7732	CZ	ARG	517	2.958	-6.847	-23.175	98.16	C
ATOM	7733	NH1	ARG	517	2.342	-5.672	-23.124	97.97	N
ATOM	7734	HH11	ARG	517	2.849	-4.849	-22.836	0.00	H
ATOM	7735	HH12	ARG	517	1.367	-5.602	-23.373	0.00	H
ATOM	7736	NH2	ARG	517	4.242	-6.939	-22.854	98.37	N
ATOM	7737	HH21	ARG	517	4.750	-6.116	-22.566	0.00	H
ATOM	7738	HH22	ARG	517	4.710	-7.832	-22.898	0.00	H
ATOM	7739	C	ARG	517	-1.559	-10.958	-21.998	97.33	C
ATOM	7740	O	ARG	517	-2.063	-11.576	-21.053	96.34	O
ATOM	7741	N	ALA	518	-1.850	-11.206	-23.273	97.02	N
ATOM	7742	HN	ALA	518	-1.398	-10.643	-23.978	0.00	H
ATOM	7743	CA	ALA	518	-2.788	-12.252	-23.666	96.70	C
ATOM	7744	HA	ALA	518	-3.778	-11.927	-23.477	0.00	H
ATOM	7745	CB	ALA	518	-2.640	-12.563	-25.154	96.44	C
ATOM	7746	HB1	ALA	518	-2.839	-11.690	-25.719	0.00	H
ATOM	7747	HB2	ALA	518	-1.653	-12.892	-25.349	0.00	H
ATOM	7748	HB3	ALA	518	-3.326	-13.323	-25.426	0.00	H
ATOM	7749	C	ALA	518	-2.560	-13.513	-22.842	96.29	C
ATOM	7750	O	ALA	518	-3.469	-13.991	-22.160	96.39	O
ATOM	7751	N	ALA	519	-1.338	-14.040	-22.904	96.05	N
ATOM	7752	HN	ALA	519	-0.656	-13.578	-23.488	0.00	H
ATOM	7753	CA	ALA	519	-0.969	-15.246	-22.162	95.95	C
ATOM	7754	HA	ALA	519	-1.334	-16.100	-22.672	0.00	H
ATOM	7755	CB	ALA	519	0.563	-15.351	-22.039	95.69	C
ATOM	7756	HB1	ALA	519	0.993	-15.395	-23.006	0.00	H
ATOM	7757	HB2	ALA	519	0.935	-14.502	-21.526	0.00	H
ATOM	7758	HB3	ALA	519	0.815	-16.227	-21.500	0.00	H
ATOM	7759	C	ALA	519	-1.606	-15.190	-20.779	95.48	C
ATOM	7760	O	ALA	519	-2.203	-16.163	-20.312	95.11	O
ATOM	7761	N	THR	520	-1.487	-14.025	-20.146	95.48	N
ATOM	7762	HN	THR	520	-0.991	-13.288	-20.624	0.00	H
ATOM	7763	CA	THR	520	-2.040	-13.789	-18.814	95.49	C
ATOM	7764	HA	THR	520	-1.663	-14.515	-18.141	0.00	H
ATOM	7765	CB	THR	520	-1.659	-12.386	-18.288	95.89	C
ATOM	7766	HB	THR	520	-2.324	-11.666	-18.690	0.00	H
ATOM	7767	OG1	THR	520	-0.319	-12.072	-18.690	96.10	O
ATOM	7768	HG1	THR	520	-0.081	-11.194	-18.361	0.00	H
ATOM	7769	CG2	THR	520	-1.747	-12.348	-16.751	95.97	C
ATOM	7770	HG21	THR	520	-2.737	-12.573	-16.448	0.00	H
ATOM	7771	HG22	THR	520	-1.081	-13.063	-16.342	0.00	H
ATOM	7772	HG23	THR	520	-1.484	-11.382	-16.406	0.00	H
ATOM	7773	C	THR	520	-3.566	-13.897	-18.846	95.07	C
ATOM	7774	O	THR	520	-4.161	-14.671	-18.089	94.91	O
ATOM	7775	N	CYS	521	-4.193	-13.108	-19.717	93.90	N
ATOM	7776	HN	CYS	521	-3.643	-12.483	-20.288	0.00	H
ATOM	7777	CA	CYS	521	-5.644	-13.135	-19.855	92.35	C
ATOM	7778	HA	CYS	521	-6.087	-12.666	-19.015	0.00	H
ATOM	7779	CB	CYS	521	-6.082	-12.366	-21.119	91.99	C
ATOM	7780	HB2	CYS	521	-5.501	-12.685	-21.945	0.00	H
ATOM	7781	HB3	CYS	521	-7.105	-12.558	-21.312	0.00	H
ATOM	7782	SG	CYS	521	-5.911	-10.541	-21.051	90.89	S
ATOM	7783	HG	CYS	521	-6.298	-10.046	-22.131	0.00	H
ATOM	7784	C	CYS	521	-6.093	-14.596	-19.938	92.03	C
ATOM	7785	O	CYS	521	-6.820	-15.085	-19.074	92.13	O
ATOM	7786	N	GLY	522	-5.631	-15.291	-20.973	91.57	N
ATOM	7787	HN	GLY	522	-5.024	-14.828	-21.633	0.00	H
ATOM	7788	CA	GLY	522	-5.982	-16.687	-21.164	91.25	C
ATOM	7789	HA2	GLY	522	-7.006	-16.761	-21.422	0.00	H
ATOM	7790	HA3	GLY	522	-5.392	-17.096	-21.942	0.00	H
ATOM	7791	C	GLY	522	-5.773	-17.573	-19.946	91.07	C
ATOM	7792	O	GLY	522	-6.646	-18.368	-19.590	91.64	O
ATOM	7793	N	ARG	523	-4.616	-17.439	-19.303	90.45	N
ATOM	7794	HN	ARG	523	-3.960	-16.757	-19.653	0.00	H
ATOM	7795	CA	ARG	523	-4.280	-18.241	-18.124	89.80	C
ATOM	7796	HA	ARG	523	-4.311	-19.269	-18.376	0.00	H
ATOM	7797	CB	ARG	523	-2.872	-17.888	-17.628	90.91	C

ATOM	7798	HB2	ARG	523	-2.160	-18.162	-18.363	0.00	H
ATOM	7799	HB3	ARG	523	-2.812	-16.846	-17.449	0.00	H
ATOM	7800	CG	ARG	523	-2.486	-18.593	-16.338	91.87	C
ATOM	7801	HG2	ARG	523	-3.260	-18.473	-15.625	0.00	H
ATOM	7802	HG3	ARG	523	-2.339	-19.624	-16.530	0.00	H
ATOM	7803	CD	ARG	523	-1.198	-18.023	-15.753	92.43	C
ATOM	7804	HD2	ARG	523	-0.396	-18.207	-16.419	0.00	H
ATOM	7805	HD3	ARG	523	-1.306	-16.979	-15.611	0.00	H
ATOM	7806	NE	ARG	523	-0.859	-18.621	-14.462	92.96	N1+
ATOM	7807	HE	ARG	523	-1.344	-19.447	-14.146	0.00	H
ATOM	7808	CZ	ARG	523	0.073	-18.147	-13.637	93.37	C
ATOM	7809	NH1	ARG	523	0.763	-17.064	-13.967	93.56	N
ATOM	7810	HH11	ARG	523	1.469	-16.706	-13.341	0.00	H
ATOM	7811	HH12	ARG	523	0.582	-16.598	-14.844	0.00	H
ATOM	7812	NH2	ARG	523	0.313	-18.749	-12.477	93.43	N
ATOM	7813	HH21	ARG	523	1.020	-18.385	-11.856	0.00	H
ATOM	7814	HH22	ARG	523	-0.212	-19.570	-12.217	0.00	H
ATOM	7815	C	ARG	523	-5.265	-18.106	-16.959	88.74	C
ATOM	7816	O	ARG	523	-5.867	-19.096	-16.534	87.87	O
ATOM	7817	N	TYR	524	-5.417	-16.880	-16.452	87.68	N
ATOM	7818	HN	TYR	524	-4.888	-16.136	-16.882	0.00	H
ATOM	7819	CA	TYR	524	-6.304	-16.590	-15.321	86.39	C
ATOM	7820	HA	TYR	524	-6.197	-17.345	-14.586	0.00	H
ATOM	7821	CB	TYR	524	-5.951	-15.229	-14.696	87.00	C
ATOM	7822	HB2	TYR	524	-5.830	-14.509	-15.463	0.00	H
ATOM	7823	HB3	TYR	524	-6.731	-14.926	-14.047	0.00	H
ATOM	7824	CG	TYR	524	-4.675	-15.244	-13.889	88.62	C
ATOM	7825	CD1	TYR	524	-3.426	-15.256	-14.514	88.97	C
ATOM	7826	HD1	TYR	524	-3.361	-15.213	-15.588	0.00	H
ATOM	7827	CE1	TYR	524	-2.250	-15.323	-13.768	89.27	C
ATOM	7828	HE1	TYR	524	-1.296	-15.331	-14.267	0.00	H
ATOM	7829	CD2	TYR	524	-4.717	-15.294	-12.495	89.23	C
ATOM	7830	HD2	TYR	524	-5.665	-15.280	-11.984	0.00	H
ATOM	7831	CE2	TYR	524	-3.551	-15.362	-11.742	89.61	C
ATOM	7832	HE2	TYR	524	-3.606	-15.401	-10.667	0.00	H
ATOM	7833	CZ	TYR	524	-2.319	-15.379	-12.381	89.48	C
ATOM	7834	OH	TYR	524	-1.163	-15.471	-11.635	89.62	O
ATOM	7835	HH	TYR	524	-0.398	-15.485	-12.226	0.00	H
ATOM	7836	C	TYR	524	-7.797	-16.607	-15.632	84.89	C
ATOM	7837	O	TYR	524	-8.577	-17.287	-14.953	84.89	O
ATOM	7838	N	LEU	525	-8.194	-15.853	-16.650	82.70	N
ATOM	7839	HN	LEU	525	-7.499	-15.333	-17.164	0.00	H
ATOM	7840	CA	LEU	525	-9.598	-15.766	-17.031	80.88	C
ATOM	7841	HA	LEU	525	-10.165	-15.408	-16.211	0.00	H
ATOM	7842	CB	LEU	525	-9.770	-14.810	-18.211	79.90	C
ATOM	7843	HB2	LEU	525	-9.246	-15.187	-19.050	0.00	H
ATOM	7844	HB3	LEU	525	-10.799	-14.723	-18.448	0.00	H
ATOM	7845	CG	LEU	525	-9.273	-13.379	-18.033	79.56	C
ATOM	7846	HG	LEU	525	-8.221	-13.383	-17.912	0.00	H
ATOM	7847	CD1	LEU	525	-9.649	-12.579	-19.269	79.57	C
ATOM	7848	HD11	LEU	525	-9.197	-13.014	-20.122	0.00	H
ATOM	7849	HD12	LEU	525	-10.702	-12.584	-19.386	0.00	H
ATOM	7850	HD13	LEU	525	-9.310	-11.582	-19.160	0.00	H
ATOM	7851	CD2	LEU	525	-9.889	-12.753	-16.786	80.27	C
ATOM	7852	HD21	LEU	525	-10.944	-12.742	-16.881	0.00	H
ATOM	7853	HD22	LEU	525	-9.617	-13.321	-15.935	0.00	H
ATOM	7854	HD23	LEU	525	-9.534	-11.761	-16.677	0.00	H
ATOM	7855	C	LEU	525	-10.222	-17.105	-17.399	80.39	C
ATOM	7856	O	LEU	525	-11.326	-17.425	-16.952	80.15	O
ATOM	7857	N	PHE	526	-9.504	-17.889	-18.200	79.14	N
ATOM	7858	HN	PHE	526	-8.587	-17.576	-18.481	0.00	H
ATOM	7859	CA	PHE	526	-10.013	-19.172	-18.670	77.69	C
ATOM	7860	HA	PHE	526	-11.028	-19.275	-18.386	0.00	H
ATOM	7861	CB	PHE	526	-9.888	-19.205	-20.189	75.14	C
ATOM	7862	HB2	PHE	526	-8.869	-19.310	-20.457	0.00	H
ATOM	7863	HB3	PHE	526	-10.439	-20.025	-20.571	0.00	H
ATOM	7864	CG	PHE	526	-10.407	-17.958	-20.860	73.19	C
ATOM	7865	CD1	PHE	526	-11.738	-17.578	-20.721	71.88	C
ATOM	7866	HD1	PHE	526	-12.409	-18.175	-20.126	0.00	H
ATOM	7867	CD2	PHE	526	-9.566	-17.164	-21.634	71.86	C
ATOM	7868	HD2	PHE	526	-8.531	-17.436	-21.756	0.00	H
ATOM	7869	CE1	PHE	526	-12.223	-16.429	-21.343	70.78	C
ATOM	7870	HE1	PHE	526	-13.256	-16.149	-21.226	0.00	H
ATOM	7871	CE2	PHE	526	-10.045	-16.011	-22.260	70.31	C
ATOM	7872	HE2	PHE	526	-9.382	-15.407	-22.856	0.00	H

ATOM	7873	CZ	PHE	526	-11.374	-15.644	-22.115	70.02	C
ATOM	7874	HZ	PHE	526	-11.750	-14.757	-22.596	0.00	H
ATOM	7875	C	PHE	526	-9.365	-20.409	-18.055	78.36	C
ATOM	7876	O	PHE	526	-9.079	-21.386	-18.744	78.60	O
ATOM	7877	N	ASN	527	-9.156	-20.366	-16.746	79.30	N
ATOM	7878	HN	ASN	527	-9.427	-19.531	-16.248	0.00	H
ATOM	7879	CA	ASN	527	-8.554	-21.480	-16.026	80.29	C
ATOM	7880	HA	ASN	527	-7.923	-22.023	-16.680	0.00	H
ATOM	7881	CB	ASN	527	-7.730	-20.943	-14.850	79.83	C
ATOM	7882	HB2	ASN	527	-6.966	-20.308	-15.216	0.00	H
ATOM	7883	HB3	ASN	527	-8.361	-20.397	-14.197	0.00	H
ATOM	7884	CG	ASN	527	-7.069	-22.042	-14.041	79.24	C
ATOM	7885	OD1	ASN	527	-6.264	-22.825	-14.563	78.09	O
ATOM	7886	ND2	ASN	527	-7.407	-22.106	-12.750	78.48	N
ATOM	7887	HD21	ASN	527	-8.068	-21.446	-12.368	0.00	H
ATOM	7888	HD22	ASN	527	-7.001	-22.814	-12.157	0.00	H
ATOM	7889	C	ASN	527	-9.663	-22.414	-15.530	81.29	C
ATOM	7890	O	ASN	527	-9.429	-23.323	-14.731	81.47	O
ATOM	7891	N	TRP	528	-10.875	-22.182	-16.021	82.58	N
ATOM	7892	HN	TRP	528	-10.986	-21.421	-16.674	0.00	H
ATOM	7893	CA	TRP	528	-12.031	-22.994	-15.641	83.86	C
ATOM	7894	HA	TRP	528	-11.783	-23.591	-14.802	0.00	H
ATOM	7895	CB	TRP	528	-13.218	-22.096	-15.281	83.49	C
ATOM	7896	HB2	TRP	528	-14.071	-22.696	-15.096	0.00	H
ATOM	7897	HB3	TRP	528	-12.986	-21.535	-14.413	0.00	H
ATOM	7898	CG	TRP	528	-13.576	-21.118	-16.374	83.05	C
ATOM	7899	CD2	TRP	528	-14.427	-21.361	-17.503	82.62	C
ATOM	7900	CE2	TRP	528	-14.459	-20.170	-18.267	82.28	C
ATOM	7901	CE3	TRP	528	-15.165	-22.469	-17.946	82.03	C
ATOM	7902	HE3	TRP	528	-15.153	-23.385	-17.380	0.00	H
ATOM	7903	CD1	TRP	528	-13.138	-19.828	-16.497	82.73	C
ATOM	7904	HD1	TRP	528	-12.475	-19.412	-15.758	0.00	H
ATOM	7905	NE1	TRP	528	-13.665	-19.252	-17.631	81.88	N
ATOM	7906	HE1	TRP	528	-13.437	-18.297	-17.864	0.00	H
ATOM	7907	CZ2	TRP	528	-15.201	-20.056	-19.447	81.90	C
ATOM	7908	HZ2	TRP	528	-15.198	-19.130	-19.998	0.00	H
ATOM	7909	CZ3	TRP	528	-15.903	-22.354	-19.122	81.78	C
ATOM	7910	HZ3	TRP	528	-16.477	-23.191	-19.482	0.00	H
ATOM	7911	CH2	TRP	528	-15.915	-21.154	-19.858	81.66	C
ATOM	7912	HH2	TRP	528	-16.500	-21.109	-20.761	0.00	H
ATOM	7913	C	TRP	528	-12.449	-23.929	-16.776	84.63	C
ATOM	7914	O	TRP	528	-13.127	-24.938	-16.551	84.38	O
ATOM	7915	N	ALA	529	-12.038	-23.583	-17.995	85.60	N
ATOM	7916	HN	ALA	529	-11.480	-22.748	-18.086	0.00	H
ATOM	7917	CA	ALA	529	-12.372	-24.372	-19.179	87.13	C
ATOM	7918	HA	ALA	529	-13.359	-24.744	-19.088	0.00	H
ATOM	7919	CB	ALA	529	-12.275	-23.499	-20.435	86.82	C
ATOM	7920	HB1	ALA	529	-12.951	-22.688	-20.354	0.00	H
ATOM	7921	HB2	ALA	529	-11.288	-23.127	-20.531	0.00	H
ATOM	7922	HB3	ALA	529	-12.518	-24.078	-21.287	0.00	H
ATOM	7923	C	ALA	529	-11.502	-25.617	-19.348	87.98	C
ATOM	7924	O	ALA	529	-11.416	-26.168	-20.446	87.83	O
ATOM	7925	N	VAL	530	-10.867	-26.057	-18.262	89.33	N
ATOM	7926	HN	VAL	530	-10.994	-25.551	-17.398	0.00	H
ATOM	7927	CA	VAL	530	-10.005	-27.238	-18.298	90.37	C
ATOM	7928	HA	VAL	530	-10.417	-27.956	-18.958	0.00	H
ATOM	7929	CB	VAL	530	-8.577	-26.887	-18.787	89.51	C
ATOM	7930	HB	VAL	530	-7.988	-27.766	-18.816	0.00	H
ATOM	7931	CG1	VAL	530	-8.626	-26.342	-20.199	89.36	C
ATOM	7932	HG11	VAL	530	-9.044	-27.070	-20.844	0.00	H
ATOM	7933	HG12	VAL	530	-9.224	-25.468	-20.219	0.00	H
ATOM	7934	HG13	VAL	530	-7.645	-26.106	-20.521	0.00	H
ATOM	7935	CG2	VAL	530	-7.933	-25.884	-17.839	88.82	C
ATOM	7936	HG21	VAL	530	-8.517	-25.001	-17.809	0.00	H
ATOM	7937	HG22	VAL	530	-7.875	-26.303	-16.868	0.00	H
ATOM	7938	HG23	VAL	530	-6.958	-25.650	-18.181	0.00	H
ATOM	7939	C	VAL	530	-9.840	-27.975	-16.963	91.75	C
ATOM	7940	O	VAL	530	-9.836	-27.363	-15.890	91.60	O
ATOM	7941	N	ARG	531	-9.715	-29.299	-17.050	93.34	N
ATOM	7942	HN	ARG	531	-9.788	-29.713	-17.967	0.00	H
ATOM	7943	CA	ARG	531	-9.482	-30.145	-15.885	94.20	C
ATOM	7944	HA	ARG	531	-9.888	-29.680	-15.024	0.00	H
ATOM	7945	CB	ARG	531	-10.145	-31.514	-16.065	94.81	C
ATOM	7946	HB2	ARG	531	-9.807	-31.954	-16.967	0.00	H
ATOM	7947	HB3	ARG	531	-9.890	-32.140	-15.250	0.00	H

ATOM	7948	CG	ARG	531	-11.663	-31.441	-16.130	96.79	C
ATOM	7949	HG2	ARG	531	-12.033	-30.991	-15.245	0.00	H
ATOM	7950	HG3	ARG	531	-11.953	-30.862	-16.968	0.00	H
ATOM	7951	CD	ARG	531	-12.303	-32.821	-16.263	98.50	C
ATOM	7952	HD2	ARG	531	-11.886	-33.325	-17.096	0.00	H
ATOM	7953	HD3	ARG	531	-12.120	-33.381	-15.383	0.00	H
ATOM	7954	NE	ARG	531	-13.751	-32.726	-16.458	100.24	N1+
ATOM	7955	HE	ARG	531	-14.200	-31.822	-16.474	0.00	H
ATOM	7956	CZ	ARG	531	-14.564	-33.769	-16.623	101.18	C
ATOM	7957	NH1	ARG	531	-14.080	-35.006	-16.614	101.18	N
ATOM	7958	HH11	ARG	531	-14.701	-35.792	-16.739	0.00	H
ATOM	7959	HH12	ARG	531	-13.092	-35.160	-16.482	0.00	H
ATOM	7960	NH2	ARG	531	-15.866	-33.575	-16.810	101.96	N
ATOM	7961	HH21	ARG	531	-16.481	-34.365	-16.935	0.00	H
ATOM	7962	HH22	ARG	531	-16.239	-32.638	-16.827	0.00	H
ATOM	7963	C	ARG	531	-7.965	-30.278	-15.896	94.23	C
ATOM	7964	O	ARG	531	-7.403	-31.340	-15.633	94.04	O
ATOM	7965	N	THR	532	-7.326	-29.162	-16.241	94.66	N
ATOM	7966	HN	THR	532	-7.911	-28.365	-16.440	0.00	H
ATOM	7967	CA	THR	532	-5.874	-29.045	-16.340	94.90	C
ATOM	7968	HA	THR	532	-5.441	-30.011	-16.330	0.00	H
ATOM	7969	CB	THR	532	-5.465	-28.322	-17.666	94.13	C
ATOM	7970	HB	THR	532	-5.972	-27.395	-17.734	0.00	H
ATOM	7971	OG1	THR	532	-5.839	-29.128	-18.794	93.57	O
ATOM	7972	HG1	THR	532	-5.584	-28.677	-19.611	0.00	H
ATOM	7973	CG2	THR	532	-3.962	-28.063	-17.702	93.46	C
ATOM	7974	HG21	THR	532	-3.690	-27.451	-16.882	0.00	H
ATOM	7975	HG22	THR	532	-3.444	-28.984	-17.642	0.00	H
ATOM	7976	HG23	THR	532	-3.710	-27.574	-18.607	0.00	H
ATOM	7977	C	THR	532	-5.334	-28.249	-15.152	95.09	C
ATOM	7978	O	THR	532	-4.598	-28.783	-14.319	95.50	O
ATOM	7979	N	LYS	533	-5.715	-26.975	-15.092	94.88	N
ATOM	7980	HN	LYS	533	-6.319	-26.654	-15.833	0.00	H
ATOM	7981	CA	LYS	533	-5.306	-26.054	-14.030	93.94	C
ATOM	7982	HA	LYS	533	-6.011	-25.268	-13.954	0.00	H
ATOM	7983	CB	LYS	533	-5.226	-26.780	-12.677	92.53	C
ATOM	7984	HB2	LYS	533	-4.484	-27.535	-12.725	0.00	H
ATOM	7985	HB3	LYS	533	-4.975	-26.085	-11.918	0.00	H
ATOM	7986	CG	LYS	533	-6.516	-27.458	-12.243	91.29	C
ATOM	7987	HG2	LYS	533	-7.277	-26.730	-12.130	0.00	H
ATOM	7988	HG3	LYS	533	-6.808	-28.163	-12.977	0.00	H
ATOM	7989	CD	LYS	533	-6.335	-28.182	-10.918	90.13	C
ATOM	7990	HD2	LYS	533	-5.626	-28.960	-11.035	0.00	H
ATOM	7991	HD3	LYS	533	-5.991	-27.498	-10.186	0.00	H
ATOM	7992	CE	LYS	533	-7.637	-28.801	-10.411	88.90	C
ATOM	7993	HE2	LYS	533	-8.360	-28.040	-10.275	0.00	H
ATOM	7994	HE3	LYS	533	-7.993	-29.504	-11.119	0.00	H
ATOM	7995	NZ	LYS	533	-7.453	-29.510	-9.101	86.66	N1+
ATOM	7996	HZ1	LYS	533	-6.776	-30.250	-9.211	0.00	H
ATOM	7997	HZ2	LYS	533	-7.126	-28.855	-8.407	0.00	H
ATOM	7998	HZ3	LYS	533	-8.334	-29.902	-8.804	0.00	H
ATOM	7999	C	LYS	533	-3.970	-25.351	-14.304	93.73	C
ATOM	8000	O	LYS	533	-3.342	-25.542	-15.349	92.81	O
ATOM	8001	N	LEU	534	-3.563	-24.531	-13.340	93.80	N
ATOM	8002	HN	LEU	534	-4.174	-24.450	-12.541	0.00	H
ATOM	8003	CA	LEU	534	-2.317	-23.772	-13.386	94.20	C
ATOM	8004	HA	LEU	534	-1.496	-24.439	-13.343	0.00	H
ATOM	8005	CB	LEU	534	-2.216	-22.954	-14.678	93.30	C
ATOM	8006	HB2	LEU	534	-2.242	-23.606	-15.512	0.00	H
ATOM	8007	HB3	LEU	534	-3.030	-22.279	-14.733	0.00	H
ATOM	8008	CG	LEU	534	-0.938	-22.114	-14.817	93.20	C
ATOM	8009	HG	LEU	534	-0.903	-21.394	-14.041	0.00	H
ATOM	8010	CD1	LEU	534	0.308	-23.008	-14.724	92.26	C
ATOM	8011	HD11	LEU	534	0.320	-23.500	-13.786	0.00	H
ATOM	8012	HD12	LEU	534	0.284	-23.728	-15.500	0.00	H
ATOM	8013	HD13	LEU	534	1.178	-22.412	-14.822	0.00	H
ATOM	8014	CD2	LEU	534	-0.964	-21.374	-16.144	92.87	C
ATOM	8015	HD21	LEU	534	-1.016	-22.074	-16.937	0.00	H
ATOM	8016	HD22	LEU	534	-1.811	-20.739	-16.177	0.00	H
ATOM	8017	HD23	LEU	534	-0.083	-20.794	-16.242	0.00	H
ATOM	8018	C	LEU	534	-2.269	-22.835	-12.180	94.51	C
ATOM	8019	O	LEU	534	-2.792	-21.720	-12.230	94.58	O
ATOM	8020	N	LYS	535	-1.646	-23.309	-11.101	94.86	N
ATOM	8021	HN	LYS	535	-1.259	-24.238	-11.180	0.00	H
ATOM	8022	CA	LYS	535	-1.506	-22.560	-9.848	94.79	C

ATOM	8023	HA	LYS	535	-2.397	-22.647	-9.283	0.00	H
ATOM	8024	CB	LYS	535	-0.332	-23.120	-9.030	94.66	C
ATOM	8025	HB2	LYS	535	0.553	-23.081	-9.610	0.00	H
ATOM	8026	HB3	LYS	535	-0.205	-22.540	-8.153	0.00	H
ATOM	8027	CG	LYS	535	-0.523	-24.571	-8.591	94.27	C
ATOM	8028	HG2	LYS	535	-1.403	-24.650	-8.007	0.00	H
ATOM	8029	HG3	LYS	535	-0.610	-25.190	-9.446	0.00	H
ATOM	8030	CD	LYS	535	0.641	-25.084	-7.758	93.40	C
ATOM	8031	HD2	LYS	535	1.537	-25.003	-8.316	0.00	H
ATOM	8032	HD3	LYS	535	0.723	-24.508	-6.873	0.00	H
ATOM	8033	CE	LYS	535	0.432	-26.539	-7.376	92.66	C
ATOM	8034	HE2	LYS	535	-0.454	-26.630	-6.804	0.00	H
ATOM	8035	HE3	LYS	535	0.347	-27.126	-8.254	0.00	H
ATOM	8036	NZ	LYS	535	1.558	-27.085	-6.567	92.00	N1+
ATOM	8037	HZ1	LYS	535	2.414	-27.023	-7.097	0.00	H
ATOM	8038	HZ2	LYS	535	1.651	-26.551	-5.716	0.00	H
ATOM	8039	HZ3	LYS	535	1.372	-28.050	-6.340	0.00	H
ATOM	8040	C	LYS	535	-1.344	-21.047	-10.036	94.73	C
ATOM	8041	O	LYS	535	-0.236	-20.532	-10.219	94.43	O
ATOM	8042	N	LEU	536	-2.476	-20.349	-9.974	94.29	N
ATOM	8043	HN	LEU	536	-3.326	-20.867	-9.810	0.00	H
ATOM	8044	CA	LEU	536	-2.524	-18.901	-10.131	93.62	C
ATOM	8045	HA	LEU	536	-2.000	-18.624	-11.008	0.00	H
ATOM	8046	CB	LEU	536	-3.979	-18.427	-10.245	93.90	C
ATOM	8047	HB2	LEU	536	-4.339	-18.158	-9.286	0.00	H
ATOM	8048	HB3	LEU	536	-4.027	-17.587	-10.889	0.00	H
ATOM	8049	CG	LEU	536	-5.051	-19.379	-10.792	93.95	C
ATOM	8050	HG	LEU	536	-4.721	-19.792	-11.710	0.00	H
ATOM	8051	CD1	LEU	536	-5.305	-20.513	-9.791	94.35	C
ATOM	8052	HD11	LEU	536	-4.407	-21.052	-9.633	0.00	H
ATOM	8053	HD12	LEU	536	-5.637	-20.105	-8.872	0.00	H
ATOM	8054	HD13	LEU	536	-6.046	-21.165	-10.176	0.00	H
ATOM	8055	CD2	LEU	536	-6.340	-18.600	-11.023	93.57	C
ATOM	8056	HD21	LEU	536	-6.669	-18.182	-10.107	0.00	H
ATOM	8057	HD22	LEU	536	-6.163	-17.824	-11.722	0.00	H
ATOM	8058	HD23	LEU	536	-7.084	-19.252	-11.401	0.00	H
ATOM	8059	C	LEU	536	-1.878	-18.255	-8.913	93.36	C
ATOM	8060	O	LEU	536	-2.278	-18.525	-7.782	93.08	O
ATOM	8061	N	THR	537	-0.881	-17.405	-9.149	92.90	N
ATOM	8062	HN	THR	537	-0.617	-17.240	-10.109	0.00	H
ATOM	8063	CA	THR	537	-0.175	-16.719	-8.069	92.13	C
ATOM	8064	HA	THR	537	-0.555	-17.045	-7.136	0.00	H
ATOM	8065	CB	THR	537	1.344	-17.020	-8.118	92.08	C
ATOM	8066	HB	THR	537	1.818	-16.582	-7.278	0.00	H
ATOM	8067	OG1	THR	537	1.909	-16.471	-9.316	91.76	O
ATOM	8068	HG1	THR	537	2.857	-16.661	-9.342	0.00	H
ATOM	8069	CG2	THR	537	1.584	-18.529	-8.097	91.85	C
ATOM	8070	HG21	THR	537	1.178	-18.939	-7.209	0.00	H
ATOM	8071	HG22	THR	537	1.116	-18.973	-8.937	0.00	H
ATOM	8072	HG23	THR	537	2.625	-18.721	-8.131	0.00	H
ATOM	8073	C	THR	537	-0.393	-15.206	-8.161	92.10	C
ATOM	8074	O	THR	537	-0.061	-14.583	-9.172	91.91	O
ATOM	8075	N	PRO	538	-0.953	-14.598	-7.099	91.80	N
ATOM	8076	CD	PRO	538	-1.140	-15.222	-5.775	91.43	C
ATOM	8077	HD2	PRO	538	-1.767	-16.070	-5.870	0.00	H
ATOM	8078	HD3	PRO	538	-0.200	-15.520	-5.389	0.00	H
ATOM	8079	CA	PRO	538	-1.232	-13.157	-7.033	91.50	C
ATOM	8080	HA	PRO	538	-2.208	-12.969	-7.400	0.00	H
ATOM	8081	CB	PRO	538	-1.163	-12.871	-5.540	91.36	C
ATOM	8082	HB2	PRO	538	-0.152	-12.740	-5.252	0.00	H
ATOM	8083	HB3	PRO	538	-1.709	-11.990	-5.324	0.00	H
ATOM	8084	CG	PRO	538	-1.782	-14.100	-4.965	91.09	C
ATOM	8085	HG2	PRO	538	-1.552	-14.161	-3.933	0.00	H
ATOM	8086	HG3	PRO	538	-2.833	-14.058	-5.091	0.00	H
ATOM	8087	C	PRO	538	-0.272	-12.291	-7.852	91.79	C
ATOM	8088	O	PRO	538	0.748	-11.818	-7.356	91.78	O
ATOM	8089	N	ILE	539	-0.627	-12.098	-9.116	92.21	N
ATOM	8090	HN	ILE	539	-1.492	-12.530	-9.406	0.00	H
ATOM	8091	CA	ILE	539	0.154	-11.315	-10.070	92.85	C
ATOM	8092	HA	ILE	539	1.091	-11.783	-10.228	0.00	H
ATOM	8093	CB	ILE	539	-0.613	-11.227	-11.410	92.35	C
ATOM	8094	HB	ILE	539	-0.543	-10.242	-11.793	0.00	H
ATOM	8095	CG2	ILE	539	-0.012	-12.200	-12.412	92.28	C
ATOM	8096	HG21	ILE	539	1.006	-11.956	-12.574	0.00	H
ATOM	8097	HG22	ILE	539	-0.082	-13.186	-12.032	0.00	H

ATOM	8098	HG23	ILE	539	-0.541	-12.136	-13.327	0.00	H
ATOM	8099	CG1	ILE	539	-2.102	-11.515	-11.172	91.65	C
ATOM	8100	HG12	ILE	539	-2.203	-12.388	-10.582	0.00	H
ATOM	8101	HG13	ILE	539	-2.544	-10.695	-10.668	0.00	H
ATOM	8102	CD1	ILE	539	-2.913	-11.743	-12.436	91.82	C
ATOM	8103	HD11	ILE	539	-2.862	-10.881	-13.049	0.00	H
ATOM	8104	HD12	ILE	539	-2.520	-12.574	-12.962	0.00	H
ATOM	8105	HD13	ILE	539	-3.922	-11.933	-12.178	0.00	H
ATOM	8106	C	ILE	539	0.561	-9.902	-9.615	94.12	C
ATOM	8107	O	ILE	539	0.132	-9.430	-8.558	94.24	O
ATOM	8108	N	PRO	540	1.413	-9.216	-10.410	95.43	N
ATOM	8109	CD	PRO	540	2.145	-9.739	-11.580	95.56	C
ATOM	8110	HD2	PRO	540	2.388	-10.757	-11.418	0.00	H
ATOM	8111	HD3	PRO	540	1.538	-9.654	-12.443	0.00	H
ATOM	8112	CA	PRO	540	1.880	-7.858	-10.089	95.65	C
ATOM	8113	HA	PRO	540	2.437	-7.880	-9.189	0.00	H
ATOM	8114	CB	PRO	540	2.776	-7.514	-11.279	95.39	C
ATOM	8115	HB2	PRO	540	2.186	-7.109	-12.060	0.00	H
ATOM	8116	HB3	PRO	540	3.502	-6.803	-10.980	0.00	H
ATOM	8117	CG	PRO	540	3.366	-8.838	-11.623	95.06	C
ATOM	8118	HG2	PRO	540	3.813	-8.787	-12.581	0.00	H
ATOM	8119	HG3	PRO	540	4.100	-9.095	-10.904	0.00	H
ATOM	8120	C	PRO	540	0.748	-6.849	-9.900	95.96	C
ATOM	8121	O	PRO	540	0.202	-6.729	-8.803	95.57	O
ATOM	8122	N	ALA	541	0.405	-6.136	-10.973	96.80	N
ATOM	8123	HN	ALA	541	0.914	-6.310	-11.827	0.00	H
ATOM	8124	CA	ALA	541	-0.662	-5.133	-10.948	97.53	C
ATOM	8125	HA	ALA	541	-0.278	-4.218	-10.578	0.00	H
ATOM	8126	CB	ALA	541	-1.210	-4.914	-12.365	97.21	C
ATOM	8127	HB1	ALA	541	-0.430	-4.577	-12.997	0.00	H
ATOM	8128	HB2	ALA	541	-1.598	-5.826	-12.738	0.00	H
ATOM	8129	HB3	ALA	541	-1.980	-4.188	-12.337	0.00	H
ATOM	8130	C	ALA	541	-1.788	-5.533	-9.986	98.10	C
ATOM	8131	O	ALA	541	-2.712	-6.272	-10.340	97.78	O
ATOM	8132	N	ALA	542	-1.675	-5.026	-8.762	98.65	N
ATOM	8133	HN	ALA	542	-0.880	-4.423	-8.616	0.00	H
ATOM	8134	CA	ALA	542	-2.606	-5.288	-7.664	99.00	C
ATOM	8135	HA	ALA	542	-3.589	-5.035	-7.966	0.00	H
ATOM	8136	CB	ALA	542	-2.564	-6.768	-7.282	98.50	C
ATOM	8137	HB1	ALA	542	-2.839	-7.356	-8.119	0.00	H
ATOM	8138	HB2	ALA	542	-1.584	-7.026	-6.976	0.00	H
ATOM	8139	HB3	ALA	542	-3.241	-6.947	-6.487	0.00	H
ATOM	8140	C	ALA	542	-2.053	-4.422	-6.534	99.32	C
ATOM	8141	O	ALA	542	-2.739	-3.549	-5.999	100.12	O
ATOM	8142	N	SER	543	-0.787	-4.663	-6.201	99.14	N
ATOM	8143	HN	SER	543	-0.317	-5.413	-6.685	0.00	H
ATOM	8144	CA	SER	543	-0.077	-3.893	-5.181	98.80	C
ATOM	8145	HA	SER	543	-0.753	-3.613	-4.416	0.00	H
ATOM	8146	CB	SER	543	1.053	-4.729	-4.566	98.65	C
ATOM	8147	HB2	SER	543	1.845	-4.819	-5.263	0.00	H
ATOM	8148	HB3	SER	543	1.407	-4.253	-3.689	0.00	H
ATOM	8149	OG	SER	543	0.602	-6.029	-4.224	98.64	O
ATOM	8150	HG	SER	543	1.332	-6.533	-3.840	0.00	H
ATOM	8151	C	SER	543	0.529	-2.712	-5.948	98.57	C
ATOM	8152	O	SER	543	1.411	-1.999	-5.449	98.33	O
ATOM	8153	N	GLN	544	0.039	-2.523	-7.173	97.79	N
ATOM	8154	HN	GLN	544	-0.695	-3.143	-7.482	0.00	H
ATOM	8155	CA	GLN	544	0.524	-1.468	-8.058	97.23	C
ATOM	8156	HA	GLN	544	0.893	-0.662	-7.478	0.00	H
ATOM	8157	CB	GLN	544	1.648	-2.012	-8.942	97.15	C
ATOM	8158	HB2	GLN	544	1.242	-2.674	-9.662	0.00	H
ATOM	8159	HB3	GLN	544	2.131	-1.208	-9.434	0.00	H
ATOM	8160	CG	GLN	544	2.730	-2.783	-8.205	96.56	C
ATOM	8161	HG2	GLN	544	3.282	-2.119	-7.592	0.00	H
ATOM	8162	HG3	GLN	544	2.283	-3.530	-7.602	0.00	H
ATOM	8163	CD	GLN	544	3.689	-3.455	-9.156	96.06	C
ATOM	8164	OE1	GLN	544	3.277	-4.225	-10.024	96.25	O
ATOM	8165	NE2	GLN	544	4.978	-3.172	-8.999	95.86	N
ATOM	8166	HE21	GLN	544	5.270	-2.535	-8.273	0.00	H
ATOM	8167	HE22	GLN	544	5.665	-3.595	-9.605	0.00	H
ATOM	8168	C	GLN	544	-0.556	-0.878	-8.970	96.81	C
ATOM	8169	O	GLN	544	-0.270	0.016	-9.773	96.80	O
ATOM	8170	N	LEU	545	-1.787	-1.371	-8.856	95.73	N
ATOM	8171	HN	LEU	545	-1.969	-2.097	-8.180	0.00	H
ATOM	8172	CA	LEU	545	-2.870	-0.870	-9.699	94.51	C

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ATOM   8173  HA  LEU   545      -2.565  -0.888 -10.713        0.00           H
ATOM   8174  CB  LEU   545      -4.128  -1.739  -9.544       93.92           C
ATOM   8175  HB2 LEU   545      -4.248  -2.009  -8.527        0.00           H
ATOM   8176  HB3 LEU   545      -4.976  -1.193  -9.867        0.00           H
ATOM   8177  CG  LEU   545      -4.123  -3.050 -10.345       93.73           C
ATOM   8178  HG  LEU   545      -3.243  -3.596 -10.123        0.00           H
ATOM   8179  CD1 LEU   545      -5.342  -3.896  -9.979       92.94           C
ATOM   8180 HD11 LEU   545      -5.317  -4.121  -8.945        0.00           H
ATOM   8181 HD12 LEU   545      -6.226  -3.357 -10.202        0.00           H
ATOM   8182 HD13 LEU   545      -5.327  -4.796 -10.537        0.00           H
ATOM   8183  CD2 LEU   545      -4.119  -2.732 -11.845       93.12           C
ATOM   8184 HD21 LEU   545      -4.984  -2.172 -12.089        0.00           H
ATOM   8185 HD22 LEU   545      -3.255  -2.169 -12.084        0.00           H
ATOM   8186 HD23 LEU   545      -4.116  -3.636 -12.397        0.00           H
ATOM   8187  C   LEU   545      -3.217   0.598  -9.466       94.11           C
ATOM   8188  O   LEU   545      -3.390   1.052  -8.335       93.76           O
ATOM   8189  N   ASP   546      -3.309   1.333 -10.567       93.66           N
ATOM   8190  HN  ASP   546      -3.142   0.868 -11.447        0.00           H
ATOM   8191  CA  ASP   546      -3.635   2.755 -10.544       93.29           C
ATOM   8192  HA  ASP   546      -3.078   3.233  -9.781        0.00           H
ATOM   8193  CB  ASP   546      -3.284   3.371 -11.899       92.39           C
ATOM   8194  HB2 ASP   546      -3.862   4.245 -12.050        0.00           H
ATOM   8195  HB3 ASP   546      -2.255   3.621 -11.917        0.00           H
ATOM   8196  CG  ASP   546      -3.559   2.418 -13.053       92.34           C
ATOM   8197  OD1 ASP   546      -4.732   2.014 -13.225       91.99           O
ATOM   8198  OD2 ASP   546      -2.604   2.061 -13.781       92.64          O1-
ATOM   8199  C   ASP   546      -5.118   2.972 -10.228       93.19           C
ATOM   8200  O   ASP   546      -5.795   3.777 -10.873       92.88           O
ATOM   8201  N   LEU   547      -5.611   2.244  -9.227       92.88           N
ATOM   8202  HN  LEU   547      -4.976   1.619  -8.755        0.00           H
ATOM   8203  CA  LEU   547      -7.010   2.323  -8.804       92.31           C
ATOM   8204  HA  LEU   547      -7.640   2.227  -9.649        0.00           H
ATOM   8205  CB  LEU   547      -7.327   1.199  -7.811       91.51           C
ATOM   8206  HB2 LEU   547      -6.476   0.579  -7.696        0.00           H
ATOM   8207  HB3 LEU   547      -7.587   1.619  -6.874        0.00           H
ATOM   8208  CG  LEU   547      -8.483   0.281  -8.213       91.07           C
ATOM   8209  HG  LEU   547      -9.390   0.827  -8.195        0.00           H
ATOM   8210  CD1 LEU   547      -8.232  -0.253  -9.624       91.49           C
ATOM   8211 HD11 LEU   547      -8.169   0.558 -10.302        0.00           H
ATOM   8212 HD12 LEU   547      -7.324  -0.797  -9.639        0.00           H
ATOM   8213 HD13 LEU   547      -9.030  -0.889  -9.908        0.00           H
ATOM   8214  CD2 LEU   547      -8.615  -0.862  -7.215       90.68           C
ATOM   8215 HD21 LEU   547      -7.716  -1.422  -7.199        0.00           H
ATOM   8216 HD22 LEU   547      -8.803  -0.468  -6.250        0.00           H
ATOM   8217 HD23 LEU   547      -9.417  -1.491  -7.502        0.00           H
ATOM   8218  C   LEU   547      -7.370   3.670  -8.178       92.13           C
ATOM   8219  O   LEU   547      -7.711   3.746  -6.993       92.33           O
ATOM   8220  N   SER   548      -7.294   4.722  -8.992       91.48           N
ATOM   8221  HN  SER   548      -7.011   4.534  -9.942        0.00           H
ATOM   8222  CA  SER   548      -7.596   6.096  -8.574       90.53           C
ATOM   8223  HA  SER   548      -6.816   6.456  -7.956        0.00           H
ATOM   8224  CB  SER   548      -7.724   7.003  -9.813       90.16           C
ATOM   8225  HB2 SER   548      -7.986   7.983  -9.508        0.00           H
ATOM   8226  HB3 SER   548      -6.799   7.029 -10.328        0.00           H
ATOM   8227  OG  SER   548      -8.724   6.525 -10.704       89.28           O
ATOM   8228  HG  SER   548      -8.781   7.113 -11.470        0.00           H
ATOM   8229  C   SER   548      -8.861   6.221  -7.707       89.84           C
ATOM   8230  O   SER   548      -8.901   5.764  -6.558       89.81           O
ATOM   8231  N   GLY   549      -9.885   6.864  -8.260       88.50           N
ATOM   8232  HN  GLY   549      -9.788   7.234  -9.194        0.00           H
ATOM   8233  CA  GLY   549     -11.132   7.037  -7.537       86.79           C
ATOM   8234  HA2 GLY   549     -11.002   6.733  -6.531        0.00           H
ATOM   8235  HA3 GLY   549     -11.417   8.057  -7.564        0.00           H
ATOM   8236  C   GLY   549     -12.241   6.208  -8.153       85.59           C
ATOM   8237  O   GLY   549     -13.234   6.749  -8.655       85.81           O
ATOM   8238  N   TRP   550     -12.072   4.888  -8.118       83.54           N
ATOM   8239  HN  TRP   550     -11.240   4.512  -7.689        0.00           H
ATOM   8240  CA  TRP   550     -13.068   3.989  -8.688       81.50           C
ATOM   8241  HA  TRP   550     -13.386   4.364  -9.626        0.00           H
ATOM   8242  CB  TRP   550     -12.496   2.585  -8.893       83.10           C
ATOM   8243  HB2 TRP   550     -12.094   2.231  -7.980        0.00           H
ATOM   8244  HB3 TRP   550     -13.266   1.934  -9.215        0.00           H
ATOM   8245  CG  TRP   550     -11.407   2.496  -9.905       84.51           C
ATOM   8246  CD2 TRP   550     -11.522   2.008 -11.243       85.05           C
ATOM   8247  CE2 TRP   550     -10.236   2.076 -11.822       85.62           C
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ATOM	8248	CE3	TRP	550	-12.587	1.518	-12.010	85.56	C
ATOM	8249	HE3	TRP	550	-13.575	1.460	-11.585	0.00	H
ATOM	8250	CD1	TRP	550	-10.099	2.836	-9.731	85.17	C
ATOM	8251	HD1	TRP	550	-9.768	3.238	-8.788	0.00	H
ATOM	8252	NE1	TRP	550	-9.387	2.585	-10.877	85.93	N
ATOM	8253	HE1	TRP	550	-8.398	2.782	-10.910	0.00	H
ATOM	8254	CZ2	TRP	550	-9.983	1.672	-13.135	86.64	C
ATOM	8255	HZ2	TRP	550	-8.986	1.741	-13.537	0.00	H
ATOM	8256	CZ3	TRP	550	-12.335	1.114	-13.319	86.52	C
ATOM	8257	HZ3	TRP	550	-13.137	0.733	-13.929	0.00	H
ATOM	8258	CH2	TRP	550	-11.040	1.195	-13.867	86.81	C
ATOM	8259	HH2	TRP	550	-10.889	0.873	-14.883	0.00	H
ATOM	8260	C	TRP	550	-14.287	3.877	-7.799	79.06	C
ATOM	8261	O	TRP	550	-15.430	4.010	-8.257	78.64	O
ATOM	8262	N	PHE	551	-14.037	3.631	-6.521	75.36	N
ATOM	8263	HN	PHE	551	-13.083	3.560	-6.201	0.00	H
ATOM	8264	CA	PHE	551	-15.127	3.465	-5.587	72.43	C
ATOM	8265	HA	PHE	551	-16.045	3.659	-6.078	0.00	H
ATOM	8266	CB	PHE	551	-15.104	2.034	-5.073	71.51	C
ATOM	8267	HB2	PHE	551	-14.198	1.860	-4.554	0.00	H
ATOM	8268	HB3	PHE	551	-15.921	1.881	-4.417	0.00	H
ATOM	8269	CG	PHE	551	-15.204	1.029	-6.180	70.21	C
ATOM	8270	CD1	PHE	551	-16.417	0.792	-6.812	69.89	C
ATOM	8271	HD1	PHE	551	-17.317	1.253	-6.441	0.00	H
ATOM	8272	CD2	PHE	551	-14.065	0.412	-6.676	70.27	C
ATOM	8273	HD2	PHE	551	-13.114	0.573	-6.198	0.00	H
ATOM	8274	CE1	PHE	551	-16.493	-0.040	-7.929	69.54	C
ATOM	8275	HE1	PHE	551	-17.442	-0.212	-8.409	0.00	H
ATOM	8276	CE2	PHE	551	-14.130	-0.420	-7.791	69.98	C
ATOM	8277	HE2	PHE	551	-13.236	-0.889	-8.165	0.00	H
ATOM	8278	CZ	PHE	551	-15.346	-0.644	-8.419	69.30	C
ATOM	8279	HZ	PHE	551	-15.402	-1.284	-9.284	0.00	H
ATOM	8280	C	PHE	551	-15.104	4.495	-4.483	70.65	C
ATOM	8281	O	PHE	551	-14.835	4.210	-3.313	70.47	O
ATOM	8282	N	VAL	552	-15.409	5.713	-4.913	68.31	N
ATOM	8283	HN	VAL	552	-15.614	5.796	-5.897	0.00	H
ATOM	8284	CA	VAL	552	-15.458	6.886	-4.060	66.24	C
ATOM	8285	HA	VAL	552	-15.146	6.625	-3.082	0.00	H
ATOM	8286	CB	VAL	552	-14.528	7.981	-4.611	66.11	C
ATOM	8287	HB	VAL	552	-14.815	8.222	-5.602	0.00	H
ATOM	8288	CG1	VAL	552	-14.667	9.262	-3.795	65.46	C
ATOM	8289	HG11	VAL	552	-15.668	9.605	-3.844	0.00	H
ATOM	8290	HG12	VAL	552	-14.409	9.068	-2.786	0.00	H
ATOM	8291	HG13	VAL	552	-14.021	10.003	-4.188	0.00	H
ATOM	8292	CG2	VAL	552	-13.100	7.475	-4.605	66.76	C
ATOM	8293	HG21	VAL	552	-12.815	7.234	-3.614	0.00	H
ATOM	8294	HG22	VAL	552	-13.029	6.611	-5.213	0.00	H
ATOM	8295	HG23	VAL	552	-12.458	8.227	-4.984	0.00	H
ATOM	8296	C	VAL	552	-16.878	7.437	-3.980	64.27	C
ATOM	8297	O	VAL	552	-17.439	7.571	-2.889	63.37	O
ATOM	8298	N	ALA	553	-17.459	7.743	-5.137	61.84	N
ATOM	8299	HN	ALA	553	-16.952	7.581	-5.994	0.00	H
ATOM	8300	CA	ALA	553	-18.801	8.302	-5.181	60.06	C
ATOM	8301	HA	ALA	553	-19.413	7.806	-4.473	0.00	H
ATOM	8302	CB	ALA	553	-18.734	9.784	-4.850	59.96	C
ATOM	8303	HB1	ALA	553	-18.327	9.911	-3.881	0.00	H
ATOM	8304	HB2	ALA	553	-18.120	10.276	-5.558	0.00	H
ATOM	8305	HB3	ALA	553	-19.709	10.197	-4.880	0.00	H
ATOM	8306	C	ALA	553	-19.508	8.102	-6.524	59.20	C
ATOM	8307	O	ALA	553	-18.870	8.079	-7.581	58.67	O
ATOM	8308	N	GLY	554	-20.832	7.969	-6.470	57.32	N
ATOM	8309	HN	GLY	554	-21.294	7.995	-5.573	0.00	H
ATOM	8310	CA	GLY	554	-21.610	7.789	-7.682	55.92	C
ATOM	8311	HA2	GLY	554	-21.118	7.101	-8.319	0.00	H
ATOM	8312	HA3	GLY	554	-22.569	7.416	-7.433	0.00	H
ATOM	8313	C	GLY	554	-21.774	9.103	-8.419	55.32	C
ATOM	8314	O	GLY	554	-21.833	10.162	-7.795	56.25	O
ATOM	8315	N	TYR	555	-21.842	9.041	-9.744	54.09	N
ATOM	8316	HN	TYR	555	-21.785	8.134	-10.182	0.00	H
ATOM	8317	CA	TYR	555	-21.995	10.240	-10.565	52.91	C
ATOM	8318	HA	TYR	555	-22.371	11.030	-9.969	0.00	H
ATOM	8319	CB	TYR	555	-20.645	10.659	-11.155	52.19	C
ATOM	8320	HB2	TYR	555	-20.276	9.885	-11.776	0.00	H
ATOM	8321	HB3	TYR	555	-20.768	11.542	-11.727	0.00	H
ATOM	8322	CG	TYR	555	-19.588	10.942	-10.115	52.52	C

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ATOM   8323  CD1 TYR   555     -19.686  12.056  -9.275       51.51           C
ATOM   8324  HD1 TYR   555     -20.512  12.739  -9.381        0.00           H
ATOM   8325  CE1 TYR   555     -18.725  12.302  -8.292       51.35           C
ATOM   8326  HE1 TYR   555     -18.816  13.165  -7.654        0.00           H
ATOM   8327  CD2 TYR   555     -18.501  10.080  -9.949       51.60           C
ATOM   8328  HD2 TYR   555     -18.397   9.216 -10.584        0.00           H
ATOM   8329  CE2 TYR   555     -17.538  10.314  -8.971       51.64           C
ATOM   8330  HE2 TYR   555     -16.709   9.635  -8.858        0.00           H
ATOM   8331  CZ  TYR   555     -17.654  11.426  -8.145       51.53           C
ATOM   8332  OH  TYR   555     -16.703  11.652  -7.174       49.78           O
ATOM   8333  HH  TYR   555     -16.926  12.456  -6.685        0.00           H
ATOM   8334  C   TYR   555     -22.968   9.971 -11.701       52.49           C
ATOM   8335  O   TYR   555     -22.874  10.585 -12.767       51.73           O
ATOM   8336  N   SER   556     -23.903   9.054 -11.475       52.23           N
ATOM   8337  HN  SER   556     -23.943   8.597 -10.576        0.00           H
ATOM   8338  CA  SER   556     -24.866   8.706 -12.512       52.19           C
ATOM   8339  HA  SER   556     -24.355   8.303 -13.347        0.00           H
ATOM   8340  CB  SER   556     -25.866   7.666 -11.992       52.55           C
ATOM   8341  HB2 SER   556     -25.344   6.898 -11.483        0.00           H
ATOM   8342  HB3 SER   556     -26.546   8.132 -11.327        0.00           H
ATOM   8343  OG  SER   556     -26.594   7.093 -13.069       50.11           O
ATOM   8344  HG  SER   556     -27.219   6.441 -12.725        0.00           H
ATOM   8345  C   SER   556     -25.602   9.947 -12.990       51.51           C
ATOM   8346  O   SER   556     -26.379  10.534 -12.241       50.33           O
ATOM   8347  N   GLY   557     -25.345  10.339 -14.238       51.42           N
ATOM   8348  HN  GLY   557     -24.693   9.804 -14.792        0.00           H
ATOM   8349  CA  GLY   557     -25.986  11.516 -14.804       51.55           C
ATOM   8350  HA2 GLY   557     -26.001  11.436 -15.860        0.00           H
ATOM   8351  HA3 GLY   557     -26.978  11.586 -14.441        0.00           H
ATOM   8352  C   GLY   557     -25.270  12.809 -14.447       52.06           C
ATOM   8353  O   GLY   557     -25.729  13.908 -14.765       51.65           O
ATOM   8354  N   GLY   558     -24.128  12.674 -13.787       52.55           N
ATOM   8355  HN  GLY   558     -23.790  11.749 -13.565        0.00           H
ATOM   8356  CA  GLY   558     -23.367  13.838 -13.385       53.96           C
ATOM   8357  HA2 GLY   558     -24.030  14.627 -13.144        0.00           H
ATOM   8358  HA3 GLY   558     -22.779  13.600 -12.537        0.00           H
ATOM   8359  C   GLY   558     -22.411  14.387 -14.428       55.08           C
ATOM   8360  O   GLY   558     -21.687  15.338 -14.146       56.32           O
ATOM   8361  N   ASP   559     -22.384  13.800 -15.621       55.28           N
ATOM   8362  HN  ASP   559     -22.983  13.008 -15.802        0.00           H
ATOM   8363  CA  ASP   559     -21.493  14.296 -16.666       55.18           C
ATOM   8364  HA  ASP   559     -21.562  13.668 -17.516        0.00           H
ATOM   8365  CB  ASP   559     -21.920  15.731 -17.037       54.15           C
ATOM   8366  HB2 ASP   559     -22.955  15.744 -17.262        0.00           H
ATOM   8367  HB3 ASP   559     -21.728  16.378 -16.221        0.00           H
ATOM   8368  CG  ASP   559     -21.181  16.285 -18.245       54.33           C
ATOM   8369  OD1 ASP   559     -21.128  15.596 -19.287       54.53           O
ATOM   8370  OD2 ASP   559     -20.666  17.422 -18.158       54.95           O1-
ATOM   8371  C   ASP   559     -20.038  14.259 -16.170       55.99           C
ATOM   8372  O   ASP   559     -19.261  15.187 -16.416       57.34           O
ATOM   8373  N   ILE   560     -19.675  13.184 -15.471       56.04           N
ATOM   8374  HN  ILE   560     -20.367  12.467 -15.315        0.00           H
ATOM   8375  CA  ILE   560     -18.322  13.024 -14.936       56.21           C
ATOM   8376  HA  ILE   560     -17.816  13.954 -14.972        0.00           H
ATOM   8377  CB  ILE   560     -18.357  12.534 -13.461       55.22           C
ATOM   8378  HB  ILE   560     -18.910  11.633 -13.402        0.00           H
ATOM   8379  CG2 ILE   560     -16.944  12.281 -12.942       54.41           C
ATOM   8380 HG21 ILE   560     -16.477  11.540 -13.537        0.00           H
ATOM   8381 HG22 ILE   560     -16.384  13.178 -12.991        0.00           H
ATOM   8382 HG23 ILE   560     -16.991  11.949 -11.938        0.00           H
ATOM   8383  CG1 ILE   560     -19.048  13.581 -12.584       52.99           C
ATOM   8384 HG12 ILE   560     -20.019  13.771 -12.960        0.00           H
ATOM   8385 HG13 ILE   560     -19.118  13.219 -11.591        0.00           H
ATOM   8386  CD1 ILE   560     -18.335  14.906 -12.519       52.03           C
ATOM   8387 HD11 ILE   560     -17.363  14.765 -12.124        0.00           H
ATOM   8388 HD12 ILE   560     -18.264  15.317 -13.493        0.00           H
ATOM   8389 HD13 ILE   560     -18.877  15.568 -11.895        0.00           H
ATOM   8390  C   ILE   560     -17.473  12.066 -15.776       57.61           C
ATOM   8391  O   ILE   560     -17.961  11.067 -16.297       55.46           O
ATOM   8392  N   TYR   561     -16.188  12.392 -15.883       61.19           N
ATOM   8393  HN  TYR   561     -15.886  13.217 -15.386        0.00           H
ATOM   8394  CA  TYR   561     -15.231  11.623 -16.669       64.69           C
ATOM   8395  HA  TYR   561     -15.613  10.650 -16.837        0.00           H
ATOM   8396  CB  TYR   561     -14.996  12.321 -18.018       66.59           C
ATOM   8397  HB2 TYR   561     -15.914  12.398 -18.540        0.00           H
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ATOM   8398  HB3 TYR   561     -14.603  13.290 -17.850        0.00           H
ATOM   8399  CG  TYR   561     -14.026  11.616 -18.950       69.59           C
ATOM   8400  CD1 TYR   561     -14.445  10.545 -19.747       70.33           C
ATOM   8401  HD1 TYR   561     -15.470  10.216 -19.712        0.00           H
ATOM   8402  CE1 TYR   561     -13.554   9.882 -20.599       71.19           C
ATOM   8403  HE1 TYR   561     -13.898   9.061 -21.205        0.00           H
ATOM   8404  CD2 TYR   561     -12.686  12.010 -19.028       70.57           C
ATOM   8405  HD2 TYR   561     -12.331  12.832 -18.430        0.00           H
ATOM   8406  CE2 TYR   561     -11.785  11.355 -19.873       71.96           C
ATOM   8407  HE2 TYR   561     -10.757  11.674 -19.915        0.00           H
ATOM   8408  CZ  TYR   561     -12.224  10.292 -20.656       72.68           C
ATOM   8409  OH  TYR   561     -11.335   9.643 -21.489       74.04           O
ATOM   8410  HH  TYR   561     -11.793   8.933 -21.959        0.00           H
ATOM   8411  C   TYR   561     -13.895  11.501 -15.946       66.57           C
ATOM   8412  O   TYR   561     -12.951  12.221 -16.266       67.40           O
ATOM   8413  N   HIS   562     -13.802  10.603 -14.973       68.65           N
ATOM   8414  HN  HIS   562     -14.600  10.038 -14.724        0.00           H
ATOM   8415  CA  HIS   562     -12.540  10.434 -14.263       71.28           C
ATOM   8416  HA  HIS   562     -12.178  11.381 -13.957        0.00           H
ATOM   8417  CB  HIS   562     -12.732   9.555 -13.029       71.94           C
ATOM   8418  HB2 HIS   562     -13.334   8.721 -13.280        0.00           H
ATOM   8419  HB3 HIS   562     -11.789   9.218 -12.685        0.00           H
ATOM   8420  CG  HIS   562     -13.398  10.257 -11.885       72.11           C
ATOM   8421  CD2 HIS   562     -13.869  11.521 -11.768       72.16           C
ATOM   8422  HD2 HIS   562     -13.804  12.199 -12.602        0.00           H
ATOM   8423  ND1 HIS   562     -13.625   9.650 -10.669       72.31           N1+
ATOM   8424  HD1 HIS   562     -13.352   8.689 -10.526        0.00           H
ATOM   8425  CE1 HIS   562     -14.205  10.510  -9.851       72.54           C
ATOM   8426  HE1 HIS   562     -14.458  10.212  -8.848        0.00           H
ATOM   8427  NE2 HIS   562     -14.365  11.652 -10.493       71.74           N
ATOM   8428  HE2 HIS   562     -14.767  12.528 -10.196        0.00           H
ATOM   8429  C   HIS   562     -11.505   9.812 -15.195       72.97           C
ATOM   8430  O   HIS   562     -11.797   8.840 -15.888       73.36           O
ATOM   8431  N   SER   563     -10.299  10.378 -15.214       75.53           N
ATOM   8432  HN  SER   563     -10.138  11.172 -14.612        0.00           H
ATOM   8433  CA  SER   563      -9.219   9.879 -16.077       77.13           C
ATOM   8434  HA  SER   563      -9.483   8.927 -16.459        0.00           H
ATOM   8435  CB  SER   563      -8.992  10.851 -17.250       77.92           C
ATOM   8436  HB2 SER   563      -8.185  10.506 -17.843        0.00           H
ATOM   8437  HB3 SER   563      -9.869  10.901 -17.842        0.00           H
ATOM   8438  OG  SER   563      -8.684  12.163 -16.796       77.68           O
ATOM   8439  HG  SER   563      -8.548  12.744 -17.557        0.00           H
ATOM   8440  C   SER   563      -7.887   9.640 -15.345       77.50           C
ATOM   8441  O   SER   563      -7.469   8.462 -15.238       77.02           O
ATOM   8442  OXT SER   563      -7.277  10.633 -14.889       78.15           O1-
TER    8443       SER   563
HETATM 8444  C1   BI     1     -24.458 -17.285 -31.257        0.00           C
HETATM 8445  C2   BI     1     -25.788 -16.854 -31.304        0.00           C
HETATM 8446  H    BI     1     -26.535 -17.336 -31.922        0.00           H
HETATM 8447  C3   BI     1     -26.182 -15.759 -30.516        0.00           C
HETATM 8448  C4   BI     1     -25.274 -15.153 -29.656        0.00           C
HETATM 8449  C5   BI     1     -23.937 -15.553 -29.603        0.00           C
HETATM 8450  H    BI     1     -23.212 -15.070 -28.957        0.00           H
HETATM 8451  C6   BI     1     -23.551 -16.613 -30.431        0.00           C
HETATM 8452  H    BI     1     -22.509 -16.919 -30.429        0.00           H
HETATM 8453  N7   BI     1     -27.402 -15.128 -30.462        0.00           N
HETATM 8454  C8   BI     1     -27.277 -14.208 -29.522        0.00           C
HETATM 8455  C16  BI     1     -28.388 -13.349 -29.238        0.00           C
HETATM 8456  N9   BI     1     -26.011 -14.193 -28.984        0.00           N
HETATM 8457  C10  BI     1     -25.545 -13.310 -27.908        0.00           C
HETATM 8458  H    BI     1     -26.405 -12.721 -27.597        0.00           H
HETATM 8459  C11  BI     1     -25.090 -14.090 -26.676        0.00           C
HETATM 8460  H    BI     1     -25.907 -14.724 -26.335        0.00           H
HETATM 8461  H    BI     1     -24.251 -14.751 -26.910        0.00           H
HETATM 8462  C12  BI     1     -24.687 -13.168 -25.538        0.00           C
HETATM 8463  H    BI     1     -25.574 -12.634 -25.190        0.00           H
HETATM 8464  H    BI     1     -24.317 -13.756 -24.692        0.00           H
HETATM 8465  C13  BI     1     -23.630 -12.166 -25.976        0.00           C
HETATM 8466  H    BI     1     -23.430 -11.469 -25.155        0.00           H
HETATM 8467  H    BI     1     -22.694 -12.694 -26.181        0.00           H
HETATM 8468  C14  BI     1     -24.069 -11.390 -27.214        0.00           C
HETATM 8469  H    BI     1     -24.908 -10.744 -26.940        0.00           H
HETATM 8470  H    BI     1     -23.263 -10.734 -27.550        0.00           H
HETATM 8471  C15  BI     1     -24.493 -12.301 -28.363        0.00           C
HETATM 8472  H    BI     1     -23.611 -12.812 -28.756        0.00           H
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HETATM 8473  H    BI     1     -24.889 -11.695 -29.185        0.00           H
HETATM 8474  C20  BI     1     -28.938 -13.155 -27.994        0.00           C
HETATM 8475  H    BI     1     -28.727 -13.542 -27.018        0.00           H
HETATM 8476  O19  BI     1     -29.979 -12.273 -28.073        0.00           O
HETATM 8477  C18  BI     1     -30.095 -11.927 -29.390        0.00           C
HETATM 8478  H    BI     1     -30.880 -11.220 -29.617        0.00           H
HETATM 8479  C17  BI     1     -29.152 -12.586 -30.151        0.00           C
HETATM 8480  H    BI     1     -29.021 -12.505 -31.221        0.00           H
HETATM 8481  C21  BI     1     -23.934 -18.442 -32.042        0.00           C
HETATM 8482  O22  BI     1     -22.861 -18.946 -31.720        0.00           O
HETATM 8483  N23  BI     1     -24.667 -18.870 -33.117        0.00           N
HETATM 8484  H    BI     1     -25.517 -18.362 -33.353        0.00           H
HETATM 8485  C24  BI     1     -24.326 -19.993 -34.019        0.00           C
HETATM 8486  C25  BI     1     -22.961 -19.818 -34.728        0.00           C
HETATM 8487  H    BI     1     -22.164 -19.598 -34.019        0.00           H
HETATM 8488  H    BI     1     -22.677 -20.760 -35.215        0.00           H
HETATM 8489  C26  BI     1     -22.967 -18.710 -35.778        0.00           C
HETATM 8490  H    BI     1     -23.109 -17.733 -35.301        0.00           H
HETATM 8491  H    BI     1     -21.985 -18.670 -36.262        0.00           H
HETATM 8492  N27  BI     1     -23.987 -18.918 -36.809        0.00           N
HETATM 8493  H    BI     1     -23.802 -19.820 -37.283        0.00           H
HETATM 8494  C28  BI     1     -25.309 -18.982 -36.179        0.00           C
HETATM 8495  H    BI     1     -25.556 -18.010 -35.736        0.00           H
HETATM 8496  H    BI     1     -26.059 -19.156 -36.958        0.00           H
HETATM 8497  C29  BI     1     -25.407 -20.091 -35.132        0.00           C
HETATM 8498  H    BI     1     -25.320 -21.058 -35.645        0.00           H
HETATM 8499  H    BI     1     -26.415 -20.070 -34.700        0.00           H
HETATM 8500  C30  BI     1     -24.456 -21.331 -33.193        0.00           C
HETATM 8501  O31  BI     1     -25.568 -21.805 -32.947        0.00           O
HETATM 8502  N32  BI     1     -23.267 -21.871 -32.743        0.00           N
HETATM 8503  H    BI     1     -22.448 -21.265 -32.778        0.00           H
HETATM 8504  C33  BI     1     -23.045 -23.178 -32.259        0.00           C
HETATM 8505  C34  BI     1     -24.045 -24.147 -32.136        0.00           C
HETATM 8506  H    BI     1     -25.071 -23.937 -32.398        0.00           H
HETATM 8507  C35  BI     1     -23.737 -25.422 -31.623        0.00           C
HETATM 8508  C36  BI     1     -22.416 -25.719 -31.272        0.00           C
HETATM 8509  C37  BI     1     -21.386 -24.782 -31.455        0.00           C
HETATM 8510  H    BI     1     -20.358 -24.997 -31.183        0.00           H
HETATM 8511  C38  BI     1     -21.727 -23.511 -31.928        0.00           C
HETATM 8512  H    BI     1     -20.936 -22.772 -32.028        0.00           H
HETATM 8513  C39  BI     1     -24.518 -26.576 -31.338        0.00           C
HETATM 8514  H    BI     1     -25.581 -26.694 -31.500        0.00           H
HETATM 8515  C40  BI     1     -23.689 -27.511 -30.755        0.00           C
HETATM 8516  N41  BI     1     -22.421 -26.987 -30.703        0.00           N
HETATM 8517  C42  BI     1     -21.270 -27.637 -30.091        0.00           C
HETATM 8518  H    BI     1     -20.374 -27.032 -30.231        0.00           H
HETATM 8519  H    BI     1     -21.459 -27.754 -29.023        0.00           H
HETATM 8520  H    BI     1     -21.119 -28.602 -30.579        0.00           H
HETATM 8521  C43  BI     1     -24.133 -28.804 -30.274        0.00           C
HETATM 8522  O44  BI     1     -23.381 -29.470 -29.493        0.00           O
HETATM 8523  O45  BI     1     -25.272 -29.218 -30.664        0.00           O1-
END
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