ATOM 1 N MET A 1 79.478 58.087 61.201 1.00 0.00 N

ATOM 2 CA MET A 1 80.541 59.096 61.206 1.00 0.00 C

ATOM 3 C MET A 1 81.718 58.772 60.272 1.00 0.00 C

ATOM 4 O MET A 1 81.987 57.604 59.990 1.00 0.00 O

ATOM 5 CB MET A 1 81.052 59.284 62.634 1.00 0.00 C

ATOM 6 CG MET A 1 79.991 59.738 63.627 1.00 0.00 C

ATOM 7 SD MET A 1 79.293 61.348 63.208 1.00 0.00 S

ATOM 8 CE MET A 1 80.684 62.421 63.553 1.00 0.00 C

ATOM 9 1H MET A 1 78.751 58.363 61.829 1.00 0.00 H

ATOM 10 2H MET A 1 79.106 57.998 60.277 1.00 0.00 H

ATOM 11 3H MET A 1 79.853 57.207 61.494 1.00 0.00 H

ATOM 12 HA MET A 1 80.126 60.038 60.847 1.00 0.00 H

ATOM 13 1HB MET A 1 81.468 58.345 62.998 1.00 0.00 H

ATOM 14 2HB MET A 1 81.854 60.022 62.640 1.00 0.00 H

ATOM 15 1HG MET A 1 79.183 59.008 63.655 1.00 0.00 H

ATOM 16 2HG MET A 1 80.429 59.801 64.623 1.00 0.00 H

ATOM 17 1HE MET A 1 80.408 63.454 63.343 1.00 0.00 H

ATOM 18 2HE MET A 1 80.966 62.326 64.603 1.00 0.00 H

ATOM 19 3HE MET A 1 81.528 62.136 62.925 1.00 0.00 H

ATOM 20 N ASP A 2 82.424 59.820 59.841 1.00 0.00 N

ATOM 21 CA ASP A 2 83.545 59.765 58.912 1.00 0.00 C

ATOM 22 C ASP A 2 84.517 58.582 59.056 1.00 0.00 C

ATOM 23 O ASP A 2 85.224 58.463 60.058 1.00 0.00 O

ATOM 24 CB ASP A 2 84.344 61.067 59.036 1.00 0.00 C

ATOM 25 CG ASP A 2 85.466 61.174 58.012 1.00 0.00 C

ATOM 26 OD1 ASP A 2 85.215 61.661 56.935 1.00 0.00 O

ATOM 27 OD2 ASP A 2 86.562 60.766 58.315 1.00 0.00 O

ATOM 28 H ASP A 2 82.112 60.773 60.017 1.00 0.00 H

ATOM 29 HA ASP A 2 83.151 59.674 57.899 1.00 0.00 H

ATOM 30 1HB ASP A 2 83.673 61.918 58.911 1.00 0.00 H

ATOM 31 2HB ASP A 2 84.776 61.134 60.035 1.00 0.00 H

ATOM 32 N ILE A 3 84.621 57.777 58.000 1.00 0.00 N

ATOM 33 CA ILE A 3 85.550 56.648 57.984 1.00 0.00 C

ATOM 34 C ILE A 3 86.827 57.031 57.231 1.00 0.00 C

ATOM 35 O ILE A 3 87.699 56.192 57.000 1.00 0.00 O

ATOM 36 CB ILE A 3 84.910 55.410 57.328 1.00 0.00 C

ATOM 37 CG1 ILE A 3 84.639 55.671 55.845 1.00 0.00 C

ATOM 38 CG2 ILE A 3 83.626 55.031 58.049 1.00 0.00 C

ATOM 39 CD1 ILE A 3 84.232 54.438 55.072 1.00 0.00 C

ATOM 40 H ILE A 3 84.011 57.903 57.199 1.00 0.00 H

ATOM 41 HA ILE A 3 85.807 56.396 59.012 1.00 0.00 H

ATOM 42 HB ILE A 3 85.604 54.572 57.378 1.00 0.00 H

ATOM 43 1HG1 ILE A 3 83.846 56.413 55.745 1.00 0.00 H

ATOM 44 2HG1 ILE A 3 85.531 56.085 55.378 1.00 0.00 H

ATOM 45 1HG2 ILE A 3 83.186 54.155 57.573 1.00 0.00 H

ATOM 46 2HG2 ILE A 3 83.847 54.805 59.091 1.00 0.00 H

ATOM 47 3HG2 ILE A 3 82.921 55.863 58.000 1.00 0.00 H

ATOM 48 1HD1 ILE A 3 84.057 54.703 54.029 1.00 0.00 H

ATOM 49 2HD1 ILE A 3 85.028 53.694 55.128 1.00 0.00 H

ATOM 50 3HD1 ILE A 3 83.318 54.025 55.498 1.00 0.00 H

ATOM 51 N SER A 4 86.893 58.285 56.755 1.00 0.00 N

ATOM 52 CA SER A 4 88.003 58.789 55.963 1.00 0.00 C

ATOM 53 C SER A 4 88.288 58.029 54.638 1.00 0.00 C

ATOM 54 O SER A 4 89.434 57.741 54.296 1.00 0.00 O

ATOM 55 CB SER A 4 89.250 58.771 56.824 1.00 0.00 C

ATOM 56 OG SER A 4 89.098 59.600 57.944 1.00 0.00 O

ATOM 57 H SER A 4 86.089 58.882 56.874 1.00 0.00 H

ATOM 58 HA SER A 4 87.778 59.814 55.663 1.00 0.00 H

ATOM 59 1HB SER A 4 89.454 57.752 57.149 1.00 0.00 H

ATOM 60 2HB SER A 4 90.104 59.104 56.236 1.00 0.00 H

ATOM 61 HG SER A 4 88.207 59.955 57.890 1.00 0.00 H

ATOM 62 N GLY A 5 87.232 57.710 53.894 1.00 0.00 N

ATOM 63 CA GLY A 5 87.331 56.910 52.671 1.00 0.00 C

ATOM 64 C GLY A 5 86.273 57.314 51.660 1.00 0.00 C

ATOM 65 O GLY A 5 86.088 58.496 51.384 1.00 0.00 O

ATOM 66 H GLY A 5 86.309 57.882 54.252 1.00 0.00 H

ATOM 67 1HA GLY A 5 88.322 57.034 52.234 1.00 0.00 H

ATOM 68 2HA GLY A 5 87.218 55.855 52.917 1.00 0.00 H

ATOM 69 N LEU A 6 85.490 56.344 51.209 1.00 0.00 N

ATOM 70 CA LEU A 6 84.314 56.607 50.380 1.00 0.00 C

ATOM 71 C LEU A 6 83.091 56.612 51.247 1.00 0.00 C

ATOM 72 O LEU A 6 83.090 55.988 52.296 1.00 0.00 O

ATOM 73 CB LEU A 6 84.166 55.550 49.278 1.00 0.00 C

ATOM 74 CG LEU A 6 85.328 55.462 48.281 1.00 0.00 C

ATOM 75 CD1 LEU A 6 85.062 54.336 47.290 1.00 0.00 C

ATOM 76 CD2 LEU A 6 85.485 56.794 47.565 1.00 0.00 C

ATOM 77 H LEU A 6 85.561 55.443 51.666 1.00 0.00 H

ATOM 78 HA LEU A 6 84.436 57.581 49.906 1.00 0.00 H

ATOM 79 1HB LEU A 6 84.057 54.572 49.747 1.00 0.00 H

ATOM 80 2HB LEU A 6 83.259 55.762 48.712 1.00 0.00 H

ATOM 81 HG LEU A 6 86.249 55.226 48.815 1.00 0.00 H

ATOM 82 1HD1 LEU A 6 85.890 54.273 46.582 1.00 0.00 H

ATOM 83 2HD1 LEU A 6 84.975 53.391 47.828 1.00 0.00 H

ATOM 84 3HD1 LEU A 6 84.138 54.534 46.752 1.00 0.00 H

ATOM 85 1HD2 LEU A 6 86.311 56.731 46.856 1.00 0.00 H

ATOM 86 2HD2 LEU A 6 84.565 57.030 47.028 1.00 0.00 H

ATOM 87 3HD2 LEU A 6 85.691 57.578 48.294 1.00 0.00 H

ATOM 88 N PRO A 7 82.059 57.350 50.818 1.00 0.00 N

ATOM 89 CA PRO A 7 80.759 57.493 51.464 1.00 0.00 C

ATOM 90 C PRO A 7 79.713 56.557 50.912 1.00 0.00 C

ATOM 91 O PRO A 7 78.546 56.864 51.009 1.00 0.00 O

ATOM 92 CB PRO A 7 80.398 58.953 51.174 1.00 0.00 C

ATOM 93 CG PRO A 7 81.022 59.229 49.849 1.00 0.00 C

ATOM 94 CD PRO A 7 82.314 58.455 49.876 1.00 0.00 C

ATOM 95 HA PRO A 7 80.871 57.320 52.544 1.00 0.00 H

ATOM 96 1HB PRO A 7 79.305 59.076 51.163 1.00 0.00 H

ATOM 97 2HB PRO A 7 80.785 59.603 51.973 1.00 0.00 H

ATOM 98 1HG PRO A 7 80.354 58.906 49.039 1.00 0.00 H

ATOM 99 2HG PRO A 7 81.180 60.310 49.720 1.00 0.00 H

ATOM 100 1HD PRO A 7 82.517 58.045 48.877 1.00 0.00 H

ATOM 101 2HD PRO A 7 83.132 59.114 50.199 1.00 0.00 H

ATOM 102 N VAL A 8 80.160 55.431 50.322 1.00 0.00 N

ATOM 103 CA VAL A 8 79.310 54.404 49.741 1.00 0.00 C

ATOM 104 C VAL A 8 77.944 54.318 50.351 1.00 0.00 C

ATOM 105 O VAL A 8 77.765 53.677 51.387 1.00 0.00 O

ATOM 106 CB VAL A 8 79.988 53.028 49.879 1.00 0.00 C

ATOM 107 CG1 VAL A 8 79.068 51.928 49.371 1.00 0.00 C

ATOM 108 CG2 VAL A 8 81.306 53.022 49.121 1.00 0.00 C

ATOM 109 H VAL A 8 81.142 55.206 50.383 1.00 0.00 H

ATOM 110 HA VAL A 8 79.171 54.627 48.683 1.00 0.00 H

ATOM 111 HB VAL A 8 80.174 52.829 50.935 1.00 0.00 H

ATOM 112 1HG1 VAL A 8 79.563 50.962 49.476 1.00 0.00 H

ATOM 113 2HG1 VAL A 8 78.146 51.928 49.952 1.00 0.00 H

ATOM 114 3HG1 VAL A 8 78.837 52.104 48.321 1.00 0.00 H

ATOM 115 1HG2 VAL A 8 81.780 52.047 49.223 1.00 0.00 H

ATOM 116 2HG2 VAL A 8 81.120 53.227 48.066 1.00 0.00 H

ATOM 117 3HG2 VAL A 8 81.964 53.790 49.529 1.00 0.00 H

ATOM 118 N PRO A 9 76.933 54.989 49.755 1.00 0.00 N

ATOM 119 CA PRO A 9 75.586 55.051 50.225 1.00 0.00 C

ATOM 120 C PRO A 9 74.891 53.692 50.325 1.00 0.00 C

ATOM 121 O PRO A 9 75.093 52.824 49.496 1.00 0.00 O

ATOM 122 CB PRO A 9 74.932 55.941 49.163 1.00 0.00 C

ATOM 123 CG PRO A 9 76.063 56.728 48.596 1.00 0.00 C

ATOM 124 CD PRO A 9 77.215 55.757 48.566 1.00 0.00 C

ATOM 125 HA PRO A 9 75.571 55.526 51.218 1.00 0.00 H

ATOM 126 1HB PRO A 9 74.426 55.319 48.412 1.00 0.00 H

ATOM 127 2HB PRO A 9 74.162 56.575 49.627 1.00 0.00 H

ATOM 128 1HG PRO A 9 75.802 57.105 47.597 1.00 0.00 H

ATOM 129 2HG PRO A 9 76.267 57.607 49.225 1.00 0.00 H

ATOM 130 1HD PRO A 9 77.169 55.161 47.644 1.00 0.00 H

ATOM 131 2HD PRO A 9 78.165 56.311 48.624 1.00 0.00 H

ATOM 132 N VAL A 10 74.130 53.501 51.392 1.00 0.00 N

ATOM 133 CA VAL A 10 73.579 52.211 51.832 1.00 0.00 C

ATOM 134 C VAL A 10 72.088 52.210 51.672 1.00 0.00 C

ATOM 135 O VAL A 10 71.414 51.577 52.487 1.00 0.00 O

ATOM 136 CB VAL A 10 73.929 51.930 53.306 1.00 0.00 C

ATOM 137 CG1 VAL A 10 75.433 51.785 53.478 1.00 0.00 C

ATOM 138 CG2 VAL A 10 73.390 53.046 54.188 1.00 0.00 C

ATOM 139 H VAL A 10 74.321 54.087 52.187 1.00 0.00 H

ATOM 140 HA VAL A 10 74.017 51.421 51.221 1.00 0.00 H

ATOM 141 HB VAL A 10 73.479 50.982 53.602 1.00 0.00 H

ATOM 142 1HG1 VAL A 10 75.663 51.587 54.525 1.00 0.00 H

ATOM 143 2HG1 VAL A 10 75.792 50.958 52.865 1.00 0.00 H

ATOM 144 3HG1 VAL A 10 75.925 52.707 53.168 1.00 0.00 H

ATOM 145 1HG2 VAL A 10 73.640 52.841 55.228 1.00 0.00 H

ATOM 146 2HG2 VAL A 10 73.836 53.995 53.887 1.00 0.00 H

ATOM 147 3HG2 VAL A 10 72.307 53.104 54.080 1.00 0.00 H

ATOM 148 N CYS A 11 71.623 53.046 50.750 1.00 0.00 N

ATOM 149 CA CYS A 11 70.239 53.082 50.438 1.00 0.00 C

ATOM 150 C CYS A 11 70.015 52.068 49.357 1.00 0.00 C

ATOM 151 O CYS A 11 70.927 51.777 48.576 1.00 0.00 O

ATOM 152 CB CYS A 11 69.803 54.471 49.970 1.00 0.00 C

ATOM 153 SG CYS A 11 70.003 55.765 51.218 1.00 0.00 S

ATOM 154 H CYS A 11 72.291 53.497 50.149 1.00 0.00 H

ATOM 155 HA CYS A 11 69.675 52.835 51.337 1.00 0.00 H

ATOM 156 1HB CYS A 11 70.381 54.758 49.092 1.00 0.00 H

ATOM 157 2HB CYS A 11 68.754 54.443 49.677 1.00 0.00 H

ATOM 158 HG CYS A 11 69.540 56.757 50.464 1.00 0.00 H

ATOM 159 N THR A 12 68.786 51.552 49.292 1.00 0.00 N

ATOM 160 CA THR A 12 68.371 50.643 48.265 1.00 0.00 C

ATOM 161 C THR A 12 68.254 51.422 46.973 1.00 0.00 C

ATOM 162 O THR A 12 67.590 52.459 46.904 1.00 0.00 O

ATOM 163 CB THR A 12 67.035 49.961 48.610 1.00 0.00 C

ATOM 164 OG1 THR A 12 67.172 49.228 49.835 1.00 0.00 O

ATOM 165 CG2 THR A 12 66.618 49.009 47.499 1.00 0.00 C

ATOM 166 H THR A 12 68.075 51.948 49.900 1.00 0.00 H

ATOM 167 HA THR A 12 69.130 49.867 48.161 1.00 0.00 H

ATOM 168 HB THR A 12 66.262 50.718 48.740 1.00 0.00 H

ATOM 169 HG1 THR A 12 67.602 48.389 49.659 1.00 0.00 H

ATOM 170 1HG2 THR A 12 65.672 48.536 47.760 1.00 0.00 H

ATOM 171 2HG2 THR A 12 66.502 49.565 46.569 1.00 0.00 H

ATOM 172 3HG2 THR A 12 67.383 48.244 47.371 1.00 0.00 H

ATOM 173 N CYS A 13 68.866 50.911 45.910 1.00 0.00 N

ATOM 174 CA CYS A 13 68.669 51.420 44.573 1.00 0.00 C

ATOM 175 C CYS A 13 67.892 50.356 43.804 1.00 0.00 C

ATOM 176 O CYS A 13 67.900 49.187 44.176 1.00 0.00 O

ATOM 177 CB CYS A 13 70.002 51.715 43.883 1.00 0.00 C

ATOM 178 SG CYS A 13 70.938 53.067 44.634 1.00 0.00 S

ATOM 179 H CYS A 13 69.238 49.979 46.030 1.00 0.00 H

ATOM 180 HA CYS A 13 68.106 52.351 44.637 1.00 0.00 H

ATOM 181 1HB CYS A 13 70.626 50.822 43.900 1.00 0.00 H

ATOM 182 2HB CYS A 13 69.822 51.968 42.838 1.00 0.00 H

ATOM 183 HG CYS A 13 71.966 53.008 43.793 1.00 0.00 H

ATOM 184 N THR A 14 67.211 50.764 42.735 1.00 0.00 N

ATOM 185 CA THR A 14 66.506 49.831 41.874 1.00 0.00 C

ATOM 186 C THR A 14 67.497 49.019 40.996 1.00 0.00 C

ATOM 187 O THR A 14 67.753 47.839 41.234 1.00 0.00 O

ATOM 188 CB THR A 14 65.494 50.576 40.983 1.00 0.00 C

ATOM 189 OG1 THR A 14 66.187 51.522 40.158 1.00 0.00 O

ATOM 190 CG2 THR A 14 64.470 51.307 41.836 1.00 0.00 C

ATOM 191 H THR A 14 67.321 51.724 42.422 1.00 0.00 H

ATOM 192 HA THR A 14 65.963 49.124 42.502 1.00 0.00 H

ATOM 193 HB THR A 14 64.982 49.861 40.340 1.00 0.00 H

ATOM 194 HG1 THR A 14 65.691 52.344 40.130 1.00 0.00 H

ATOM 195 1HG2 THR A 14 63.762 51.827 41.189 1.00 0.00 H

ATOM 196 2HG2 THR A 14 63.934 50.589 42.457 1.00 0.00 H

ATOM 197 3HG2 THR A 14 64.976 52.029 42.474 1.00 0.00 H

ATOM 198 N GLY A 15 67.937 49.599 39.881 1.00 0.00 N

ATOM 199 CA GLY A 15 68.691 48.867 38.867 1.00 0.00 C

ATOM 200 C GLY A 15 67.774 48.422 37.712 1.00 0.00 C

ATOM 201 O GLY A 15 68.049 48.713 36.540 1.00 0.00 O

ATOM 202 H GLY A 15 67.526 50.487 39.629 1.00 0.00 H

ATOM 203 1HA GLY A 15 69.491 49.500 38.481 1.00 0.00 H

ATOM 204 2HA GLY A 15 69.162 47.996 39.322 1.00 0.00 H

ATOM 205 N THR A 16 66.654 47.779 38.068 1.00 0.00 N

ATOM 206 CA THR A 16 65.763 47.066 37.151 1.00 0.00 C

ATOM 207 C THR A 16 65.139 47.848 36.017 1.00 0.00 C

ATOM 208 O THR A 16 65.058 47.308 34.915 1.00 0.00 O

ATOM 209 CB THR A 16 64.619 46.415 37.951 1.00 0.00 C

ATOM 210 OG1 THR A 16 65.159 45.443 38.857 1.00 0.00 O

ATOM 211 CG2 THR A 16 63.633 45.735 37.013 1.00 0.00 C

ATOM 212 H THR A 16 66.770 47.357 38.991 1.00 0.00 H

ATOM 213 HA THR A 16 66.336 46.287 36.647 1.00 0.00 H

ATOM 214 HB THR A 16 64.097 47.178 38.527 1.00 0.00 H

ATOM 215 HG1 THR A 16 64.467 44.831 39.117 1.00 0.00 H

ATOM 216 1HG2 THR A 16 62.832 45.281 37.596 1.00 0.00 H

ATOM 217 2HG2 THR A 16 63.212 46.473 36.331 1.00 0.00 H

ATOM 218 3HG2 THR A 16 64.148 44.965 36.441 1.00 0.00 H

ATOM 219 N PRO A 17 64.676 49.107 36.223 1.00 0.00 N

ATOM 220 CA PRO A 17 64.096 49.918 35.172 1.00 0.00 C

ATOM 221 C PRO A 17 65.137 50.649 34.333 1.00 0.00 C

ATOM 222 O PRO A 17 64.794 51.500 33.518 1.00 0.00 O

ATOM 223 CB PRO A 17 63.223 50.898 35.959 1.00 0.00 C

ATOM 224 CG PRO A 17 63.930 51.054 37.261 1.00 0.00 C

ATOM 225 CD PRO A 17 64.471 49.682 37.561 1.00 0.00 C

ATOM 226 HA PRO A 17 63.486 49.279 34.516 1.00 0.00 H

ATOM 227 1HB PRO A 17 63.131 51.846 35.408 1.00 0.00 H

ATOM 228 2HB PRO A 17 62.208 50.493 36.071 1.00 0.00 H

ATOM 229 1HG PRO A 17 64.726 51.811 37.173 1.00 0.00 H

ATOM 230 2HG PRO A 17 63.235 51.414 38.032 1.00 0.00 H

ATOM 231 1HD PRO A 17 65.424 49.771 38.103 1.00 0.00 H

ATOM 232 2HD PRO A 17 63.737 49.121 38.159 1.00 0.00 H

ATOM 233 N GLN A 18 66.421 50.368 34.597 1.00 0.00 N

ATOM 234 CA GLN A 18 67.569 50.990 33.912 1.00 0.00 C

ATOM 235 C GLN A 18 67.497 52.545 33.974 1.00 0.00 C

ATOM 236 O GLN A 18 67.610 53.218 32.954 1.00 0.00 O

ATOM 237 CB GLN A 18 67.629 50.523 32.456 1.00 0.00 C

ATOM 238 CG GLN A 18 67.708 49.014 32.288 1.00 0.00 C

ATOM 239 CD GLN A 18 69.033 48.449 32.761 1.00 0.00 C

ATOM 240 OE1 GLN A 18 70.091 48.766 32.209 1.00 0.00 O

ATOM 241 NE2 GLN A 18 68.984 47.606 33.786 1.00 0.00 N

ATOM 242 H GLN A 18 66.634 49.763 35.381 1.00 0.00 H

ATOM 243 HA GLN A 18 68.483 50.681 34.419 1.00 0.00 H

ATOM 244 1HB GLN A 18 66.745 50.875 31.924 1.00 0.00 H

ATOM 245 2HB GLN A 18 68.499 50.961 31.968 1.00 0.00 H

ATOM 246 1HG GLN A 18 66.911 48.553 32.871 1.00 0.00 H

ATOM 247 2HG GLN A 18 67.589 48.770 31.233 1.00 0.00 H

ATOM 248 1HE2 GLN A 18 69.827 47.202 34.141 1.00 0.00 H

ATOM 249 2HE2 GLN A 18 68.104 47.377 34.203 1.00 0.00 H

ATOM 250 N GLN A 19 67.299 53.075 35.176 1.00 0.00 N

ATOM 251 CA GLN A 19 67.186 54.526 35.376 1.00 0.00 C

ATOM 252 C GLN A 19 68.463 55.139 35.935 1.00 0.00 C

ATOM 253 O GLN A 19 68.618 56.348 35.951 1.00 0.00 O

ATOM 254 CB GLN A 19 66.016 54.843 36.311 1.00 0.00 C

ATOM 255 CG GLN A 19 64.663 54.389 35.790 1.00 0.00 C

ATOM 256 CD GLN A 19 64.290 55.062 34.483 1.00 0.00 C

ATOM 257 OE1 GLN A 19 64.215 56.292 34.402 1.00 0.00 O

ATOM 258 NE2 GLN A 19 64.054 54.259 33.453 1.00 0.00 N

ATOM 259 H GLN A 19 67.246 52.479 35.983 1.00 0.00 H

ATOM 260 HA GLN A 19 67.000 54.994 34.410 1.00 0.00 H

ATOM 261 1HB GLN A 19 66.183 54.365 37.276 1.00 0.00 H

ATOM 262 2HB GLN A 19 65.968 55.918 36.481 1.00 0.00 H

ATOM 263 1HG GLN A 19 64.692 53.312 35.624 1.00 0.00 H

ATOM 264 2HG GLN A 19 63.900 54.632 36.530 1.00 0.00 H

ATOM 265 1HE2 GLN A 19 63.803 54.646 32.563 1.00 0.00 H

ATOM 266 2HE2 GLN A 19 64.127 53.268 33.562 1.00 0.00 H

ATOM 267 N CYS A 20 69.400 54.314 36.459 1.00 0.00 N

ATOM 268 CA CYS A 20 70.665 54.865 36.880 1.00 0.00 C

ATOM 269 C CYS A 20 71.546 55.331 35.730 1.00 0.00 C

ATOM 270 O CYS A 20 71.617 54.699 34.682 1.00 0.00 O

ATOM 271 CB CYS A 20 71.432 53.826 37.700 1.00 0.00 C

ATOM 272 SG CYS A 20 73.064 54.377 38.249 1.00 0.00 S

ATOM 273 H CYS A 20 69.347 53.307 36.520 1.00 0.00 H

ATOM 274 HA CYS A 20 70.472 55.738 37.504 1.00 0.00 H

ATOM 275 1HB CYS A 20 70.850 53.558 38.583 1.00 0.00 H

ATOM 276 2HB CYS A 20 71.562 52.921 37.108 1.00 0.00 H

ATOM 277 N TYR A 21 72.224 56.454 35.934 1.00 0.00 N

ATOM 278 CA TYR A 21 73.138 57.015 34.920 1.00 0.00 C

ATOM 279 C TYR A 21 74.367 56.171 34.550 1.00 0.00 C

ATOM 280 O TYR A 21 74.887 56.271 33.447 1.00 0.00 O

ATOM 281 CB TYR A 21 73.610 58.394 35.386 1.00 0.00 C

ATOM 282 CG TYR A 21 74.151 59.263 34.272 1.00 0.00 C

ATOM 283 CD1 TYR A 21 73.369 59.525 33.155 1.00 0.00 C

ATOM 284 CD2 TYR A 21 75.426 59.799 34.366 1.00 0.00 C

ATOM 285 CE1 TYR A 21 73.863 60.319 32.138 1.00 0.00 C

ATOM 286 CE2 TYR A 21 75.920 60.592 33.349 1.00 0.00 C

ATOM 287 CZ TYR A 21 75.143 60.852 32.239 1.00 0.00 C

ATOM 288 OH TYR A 21 75.634 61.642 31.225 1.00 0.00 O

ATOM 289 H TYR A 21 72.127 56.958 36.804 1.00 0.00 H

ATOM 290 HA TYR A 21 72.592 57.117 33.981 1.00 0.00 H

ATOM 291 1HB TYR A 21 72.781 58.922 35.858 1.00 0.00 H

ATOM 292 2HB TYR A 21 74.392 58.276 36.135 1.00 0.00 H

ATOM 293 HD1 TYR A 21 72.368 59.104 33.081 1.00 0.00 H

ATOM 294 HD2 TYR A 21 76.041 59.592 35.243 1.00 0.00 H

ATOM 295 HE1 TYR A 21 73.249 60.525 31.261 1.00 0.00 H

ATOM 296 HE2 TYR A 21 76.923 61.011 33.424 1.00 0.00 H

ATOM 297 HH TYR A 21 76.525 61.926 31.444 1.00 0.00 H

ATOM 298 N ARG A 22 74.825 55.341 35.525 1.00 0.00 N

ATOM 299 CA ARG A 22 75.863 54.325 35.355 1.00 0.00 C

ATOM 300 C ARG A 22 77.243 54.889 34.985 1.00 0.00 C

ATOM 301 O ARG A 22 78.042 54.173 34.386 1.00 0.00 O

ATOM 302 CB ARG A 22 75.437 53.335 34.281 1.00 0.00 C

ATOM 303 CG ARG A 22 74.162 52.566 34.590 1.00 0.00 C

ATOM 304 CD ARG A 22 74.362 51.590 35.690 1.00 0.00 C

ATOM 305 NE ARG A 22 73.150 50.840 35.978 1.00 0.00 N

ATOM 306 CZ ARG A 22 72.690 49.814 35.237 1.00 0.00 C

ATOM 307 NH1 ARG A 22 73.350 49.427 34.168 1.00 0.00 N

ATOM 308 NH2 ARG A 22 71.574 49.196 35.583 1.00 0.00 N

ATOM 309 H ARG A 22 74.326 55.348 36.400 1.00 0.00 H

ATOM 310 HA ARG A 22 75.986 53.796 36.300 1.00 0.00 H

ATOM 311 1HB ARG A 22 75.284 53.863 33.340 1.00 0.00 H

ATOM 312 2HB ARG A 22 76.231 52.605 34.122 1.00 0.00 H

ATOM 313 1HG ARG A 22 73.380 53.265 34.890 1.00 0.00 H

ATOM 314 2HG ARG A 22 73.841 52.022 33.701 1.00 0.00 H

ATOM 315 1HD ARG A 22 75.142 50.881 35.409 1.00 0.00 H

ATOM 316 2HD ARG A 22 74.660 52.117 36.595 1.00 0.00 H

ATOM 317 HE ARG A 22 72.614 51.109 36.794 1.00 0.00 H

ATOM 318 1HH1 ARG A 22 74.204 49.900 33.903 1.00 0.00 H

ATOM 319 2HH1 ARG A 22 73.005 48.659 33.611 1.00 0.00 H

ATOM 320 1HH2 ARG A 22 71.066 49.494 36.405 1.00 0.00 H

ATOM 321 2HH2 ARG A 22 71.229 48.428 35.028 1.00 0.00 H

ATOM 322 N TRP A 23 77.532 56.128 35.364 1.00 0.00 N

ATOM 323 CA TRP A 23 78.781 56.818 35.025 1.00 0.00 C

ATOM 324 C TRP A 23 80.007 56.369 35.827 1.00 0.00 C

ATOM 325 O TRP A 23 80.704 57.208 36.411 1.00 0.00 O

ATOM 326 CB TRP A 23 78.594 58.324 35.216 1.00 0.00 C

ATOM 327 CG TRP A 23 79.669 59.147 34.573 1.00 0.00 C

ATOM 328 CD1 TRP A 23 80.778 59.657 35.178 1.00 0.00 C

ATOM 329 CD2 TRP A 23 79.742 59.562 33.187 1.00 0.00 C

ATOM 330 NE1 TRP A 23 81.533 60.357 34.271 1.00 0.00 N

ATOM 331 CE2 TRP A 23 80.915 60.308 33.047 1.00 0.00 C

ATOM 332 CE3 TRP A 23 78.920 59.361 32.072 1.00 0.00 C

ATOM 333 CZ2 TRP A 23 81.292 60.862 31.833 1.00 0.00 C

ATOM 334 CZ3 TRP A 23 79.298 59.915 30.854 1.00 0.00 C

ATOM 335 CH2 TRP A 23 80.454 60.645 30.739 1.00 0.00 C

ATOM 336 H TRP A 23 76.800 56.702 35.747 1.00 0.00 H

ATOM 337 HA TRP A 23 79.014 56.617 33.979 1.00 0.00 H

ATOM 338 1HB TRP A 23 77.634 58.628 34.799 1.00 0.00 H

ATOM 339 2HB TRP A 23 78.576 58.556 36.281 1.00 0.00 H

ATOM 340 HD1 TRP A 23 81.029 59.527 36.230 1.00 0.00 H

ATOM 341 HE1 TRP A 23 82.402 60.833 34.470 1.00 0.00 H

ATOM 342 HE3 TRP A 23 78.002 58.780 32.157 1.00 0.00 H

ATOM 343 HZ2 TRP A 23 82.206 61.445 31.721 1.00 0.00 H

ATOM 344 HZ3 TRP A 23 78.652 59.755 29.991 1.00 0.00 H

ATOM 345 HH2 TRP A 23 80.721 61.065 29.769 1.00 0.00 H

ATOM 346 N GLY A 24 80.291 55.064 35.827 1.00 0.00 N

ATOM 347 CA GLY A 24 81.452 54.496 36.479 1.00 0.00 C

ATOM 348 C GLY A 24 82.754 55.114 36.013 1.00 0.00 C

ATOM 349 O GLY A 24 83.374 55.903 36.708 1.00 0.00 O

ATOM 350 H GLY A 24 79.665 54.437 35.333 1.00 0.00 H

ATOM 351 1HA GLY A 24 81.366 54.632 37.557 1.00 0.00 H

ATOM 352 2HA GLY A 24 81.486 53.423 36.292 1.00 0.00 H

ATOM 353 N CYS A 25 83.117 54.815 34.773 1.00 0.00 N

ATOM 354 CA CYS A 25 84.199 55.489 34.069 1.00 0.00 C

ATOM 355 C CYS A 25 85.545 55.669 34.816 1.00 0.00 C

ATOM 356 O CYS A 25 86.064 56.779 34.923 1.00 0.00 O

ATOM 357 CB CYS A 25 83.705 56.870 33.640 1.00 0.00 C

ATOM 358 SG CYS A 25 82.299 56.832 32.503 1.00 0.00 S

ATOM 359 H CYS A 25 82.434 54.325 34.214 1.00 0.00 H

ATOM 360 HA CYS A 25 84.457 54.901 33.188 1.00 0.00 H

ATOM 361 1HB CYS A 25 83.411 57.442 34.521 1.00 0.00 H

ATOM 362 2HB CYS A 25 84.517 57.412 33.154 1.00 0.00 H

ATOM 363 HG CYS A 25 83.019 56.653 31.399 1.00 0.00 H

ATOM 364 N GLY A 26 86.055 54.563 35.373 1.00 0.00 N

ATOM 365 CA GLY A 26 87.203 54.459 36.291 1.00 0.00 C

ATOM 366 C GLY A 26 87.168 55.241 37.613 1.00 0.00 C

ATOM 367 O GLY A 26 87.523 54.687 38.657 1.00 0.00 O

ATOM 368 H GLY A 26 85.404 53.798 35.420 1.00 0.00 H

ATOM 369 1HA GLY A 26 87.351 53.416 36.570 1.00 0.00 H

ATOM 370 2HA GLY A 26 88.107 54.786 35.780 1.00 0.00 H

ATOM 371 N GLY A 27 86.728 56.497 37.594 1.00 0.00 N

ATOM 372 CA GLY A 27 86.693 57.334 38.790 1.00 0.00 C

ATOM 373 C GLY A 27 85.418 57.251 39.607 1.00 0.00 C

ATOM 374 O GLY A 27 85.401 57.732 40.731 1.00 0.00 O

ATOM 375 H GLY A 27 86.392 56.890 36.722 1.00 0.00 H

ATOM 376 1HA GLY A 27 87.520 57.064 39.447 1.00 0.00 H

ATOM 377 2HA GLY A 27 86.833 58.377 38.509 1.00 0.00 H

ATOM 378 N TRP A 28 84.374 56.620 39.071 1.00 0.00 N

ATOM 379 CA TRP A 28 83.104 56.449 39.762 1.00 0.00 C

ATOM 380 C TRP A 28 82.471 57.756 40.250 1.00 0.00 C

ATOM 381 O TRP A 28 82.482 58.063 41.439 1.00 0.00 O

ATOM 382 CB TRP A 28 83.301 55.513 40.957 1.00 0.00 C

ATOM 383 CG TRP A 28 83.782 54.147 40.576 1.00 0.00 C

ATOM 384 CD1 TRP A 28 85.075 53.713 40.558 1.00 0.00 C

ATOM 385 CD2 TRP A 28 82.975 53.022 40.153 1.00 0.00 C

ATOM 386 NE1 TRP A 28 85.127 52.401 40.154 1.00 0.00 N

ATOM 387 CE2 TRP A 28 83.852 51.963 39.904 1.00 0.00 C

ATOM 388 CE3 TRP A 28 81.600 52.832 39.968 1.00 0.00 C

ATOM 389 CZ2 TRP A 28 83.403 50.723 39.476 1.00 0.00 C

ATOM 390 CZ3 TRP A 28 81.149 51.589 39.541 1.00 0.00 C

ATOM 391 CH2 TRP A 28 82.027 50.562 39.302 1.00 0.00 C

ATOM 392 H TRP A 28 84.457 56.173 38.168 1.00 0.00 H

ATOM 393 HA TRP A 28 82.391 56.001 39.070 1.00 0.00 H

ATOM 394 1HB TRP A 28 84.024 55.952 41.648 1.00 0.00 H

ATOM 395 2HB TRP A 28 82.358 55.408 41.496 1.00 0.00 H

ATOM 396 HD1 TRP A 28 85.938 54.319 40.827 1.00 0.00 H

ATOM 397 HE1 TRP A 28 85.967 51.850 40.057 1.00 0.00 H

ATOM 398 HE3 TRP A 28 80.898 53.643 40.160 1.00 0.00 H

ATOM 399 HZ2 TRP A 28 84.084 49.896 39.279 1.00 0.00 H

ATOM 400 HZ3 TRP A 28 80.077 51.449 39.400 1.00 0.00 H

ATOM 401 HH2 TRP A 28 81.640 49.599 38.968 1.00 0.00 H

ATOM 402 N GLN A 29 81.922 58.524 39.314 1.00 0.00 N

ATOM 403 CA GLN A 29 81.381 59.844 39.636 1.00 0.00 C

ATOM 404 C GLN A 29 79.874 59.865 39.525 1.00 0.00 C

ATOM 405 O GLN A 29 79.333 59.790 38.424 1.00 0.00 O

ATOM 406 CB GLN A 29 81.980 60.913 38.718 1.00 0.00 C

ATOM 407 CG GLN A 29 81.439 62.312 38.955 1.00 0.00 C

ATOM 408 CD GLN A 29 81.831 62.862 40.313 1.00 0.00 C

ATOM 409 OE1 GLN A 29 82.976 63.269 40.526 1.00 0.00 O

ATOM 410 NE2 GLN A 29 80.881 62.878 41.241 1.00 0.00 N

ATOM 411 H GLN A 29 81.871 58.185 38.360 1.00 0.00 H

ATOM 412 HA GLN A 29 81.646 60.084 40.666 1.00 0.00 H

ATOM 413 1HB GLN A 29 83.062 60.943 38.852 1.00 0.00 H

ATOM 414 2HB GLN A 29 81.787 60.649 37.678 1.00 0.00 H

ATOM 415 1HG GLN A 29 81.835 62.978 38.189 1.00 0.00 H

ATOM 416 2HG GLN A 29 80.351 62.284 38.899 1.00 0.00 H

ATOM 417 1HE2 GLN A 29 81.081 63.229 42.156 1.00 0.00 H

ATOM 418 2HE2 GLN A 29 79.965 62.538 41.025 1.00 0.00 H

ATOM 419 N SER A 30 79.218 59.864 40.692 1.00 0.00 N

ATOM 420 CA SER A 30 77.762 59.738 40.826 1.00 0.00 C

ATOM 421 C SER A 30 77.301 58.528 40.045 1.00 0.00 C

ATOM 422 O SER A 30 76.348 58.578 39.268 1.00 0.00 O

ATOM 423 CB SER A 30 77.058 60.982 40.321 1.00 0.00 C

ATOM 424 OG SER A 30 77.449 62.111 41.053 1.00 0.00 O

ATOM 425 H SER A 30 79.773 59.766 41.528 1.00 0.00 H

ATOM 426 HA SER A 30 77.521 59.612 41.882 1.00 0.00 H

ATOM 427 1HB SER A 30 77.290 61.131 39.267 1.00 0.00 H

ATOM 428 2HB SER A 30 75.980 60.849 40.401 1.00 0.00 H

ATOM 429 HG SER A 30 76.658 62.425 41.499 1.00 0.00 H

ATOM 430 N ALA A 31 77.961 57.383 40.259 1.00 0.00 N

ATOM 431 CA ALA A 31 77.611 56.155 39.627 1.00 0.00 C

ATOM 432 C ALA A 31 76.445 55.499 40.346 1.00 0.00 C

ATOM 433 O ALA A 31 76.644 54.563 41.110 1.00 0.00 O

ATOM 434 CB ALA A 31 78.802 55.314 39.483 1.00 0.00 C

ATOM 435 H ALA A 31 78.748 57.411 40.890 1.00 0.00 H

ATOM 436 HA ALA A 31 77.213 56.385 38.639 1.00 0.00 H

ATOM 437 1HB ALA A 31 78.530 54.376 39.000 1.00 0.00 H

ATOM 438 2HB ALA A 31 79.541 55.835 38.874 1.00 0.00 H

ATOM 439 3HB ALA A 31 79.222 55.107 40.465 1.00 0.00 H

ATOM 440 N CYS A 32 75.265 56.088 40.096 1.00 0.00 N

ATOM 441 CA CYS A 32 74.035 55.959 40.784 1.00 0.00 C

ATOM 442 C CYS A 32 74.043 56.900 41.981 1.00 0.00 C

ATOM 443 O CYS A 32 74.004 58.110 41.811 1.00 0.00 O

ATOM 444 CB CYS A 32 73.819 54.515 41.238 1.00 0.00 C

ATOM 445 SG CYS A 32 73.705 53.323 39.884 1.00 0.00 S

ATOM 446 H CYS A 32 75.304 56.865 39.467 1.00 0.00 H

ATOM 447 HA CYS A 32 73.228 56.233 40.104 1.00 0.00 H

ATOM 448 1HB CYS A 32 74.643 54.212 41.886 1.00 0.00 H

ATOM 449 2HB CYS A 32 72.903 54.451 41.823 1.00 0.00 H

ATOM 450 N CYS A 33 73.867 56.427 43.208 1.00 0.00 N

ATOM 451 CA CYS A 33 73.873 57.428 44.296 1.00 0.00 C

ATOM 452 C CYS A 33 75.277 58.040 44.556 1.00 0.00 C

ATOM 453 O CYS A 33 75.397 59.247 44.672 1.00 0.00 O

ATOM 454 CB CYS A 33 73.363 56.792 45.590 1.00 0.00 C

ATOM 455 SG CYS A 33 73.250 57.941 46.982 1.00 0.00 S

ATOM 456 H CYS A 33 73.833 55.431 43.368 1.00 0.00 H

ATOM 457 HA CYS A 33 73.208 58.245 44.018 1.00 0.00 H

ATOM 458 1HB CYS A 33 72.374 56.368 45.421 1.00 0.00 H

ATOM 459 2HB CYS A 33 74.025 55.977 45.880 1.00 0.00 H

ATOM 460 HG CYS A 33 72.795 57.052 47.859 1.00 0.00 H

ATOM 461 N THR A 34 76.331 57.222 44.578 1.00 0.00 N

ATOM 462 CA THR A 34 77.682 57.781 44.490 1.00 0.00 C

ATOM 463 C THR A 34 78.514 56.654 43.954 1.00 0.00 C

ATOM 464 O THR A 34 78.844 56.617 42.780 1.00 0.00 O

ATOM 465 CB THR A 34 78.228 58.276 45.840 1.00 0.00 C

ATOM 466 OG1 THR A 34 77.411 59.350 46.326 1.00 0.00 O

ATOM 467 CG2 THR A 34 79.661 58.765 45.689 1.00 0.00 C

ATOM 468 H THR A 34 76.178 56.324 44.146 1.00 0.00 H

ATOM 469 HA THR A 34 77.658 58.639 43.818 1.00 0.00 H

ATOM 470 HB THR A 34 78.203 57.462 46.564 1.00 0.00 H

ATOM 471 HG1 THR A 34 76.780 59.602 45.647 1.00 0.00 H

ATOM 472 1HG2 THR A 34 80.032 59.111 46.654 1.00 0.00 H

ATOM 473 2HG2 THR A 34 80.288 57.948 45.331 1.00 0.00 H

ATOM 474 3HG2 THR A 34 79.691 59.586 44.973 1.00 0.00 H

ATOM 475 N THR A 35 78.720 55.612 44.750 1.00 0.00 N

ATOM 476 CA THR A 35 79.523 54.491 44.291 1.00 0.00 C

ATOM 477 C THR A 35 79.109 53.193 44.981 1.00 0.00 C

ATOM 478 O THR A 35 79.800 52.742 45.893 1.00 0.00 O

ATOM 479 CB THR A 35 81.021 54.753 44.530 1.00 0.00 C

ATOM 480 OG1 THR A 35 81.416 55.947 43.842 1.00 0.00 O

ATOM 481 CG2 THR A 35 81.854 53.584 44.027 1.00 0.00 C

ATOM 482 H THR A 35 78.387 55.639 45.698 1.00 0.00 H

ATOM 483 HA THR A 35 79.360 54.365 43.220 1.00 0.00 H

ATOM 484 HB THR A 35 81.201 54.888 45.596 1.00 0.00 H

ATOM 485 HG1 THR A 35 80.986 55.979 42.984 1.00 0.00 H

ATOM 486 1HG2 THR A 35 82.910 53.787 44.205 1.00 0.00 H

ATOM 487 2HG2 THR A 35 81.564 52.677 44.557 1.00 0.00 H

ATOM 488 3HG2 THR A 35 81.685 53.450 42.960 1.00 0.00 H

ATOM 489 N ASN A 36 77.956 52.629 44.623 1.00 0.00 N

ATOM 490 CA ASN A 36 77.470 51.483 45.398 1.00 0.00 C

ATOM 491 C ASN A 36 76.810 50.279 44.658 1.00 0.00 C

ATOM 492 O ASN A 36 77.467 49.273 44.420 1.00 0.00 O

ATOM 493 CB ASN A 36 76.503 52.011 46.442 1.00 0.00 C

ATOM 494 CG ASN A 36 75.403 52.840 45.842 1.00 0.00 C

ATOM 495 OD1 ASN A 36 75.318 52.988 44.618 1.00 0.00 O

ATOM 496 ND2 ASN A 36 74.558 53.385 46.681 1.00 0.00 N

ATOM 497 H ASN A 36 77.317 53.180 44.070 1.00 0.00 H

ATOM 498 HA ASN A 36 78.323 51.008 45.886 1.00 0.00 H

ATOM 499 1HB ASN A 36 76.059 51.173 46.982 1.00 0.00 H

ATOM 500 2HB ASN A 36 77.047 52.617 47.167 1.00 0.00 H

ATOM 501 1HD2 ASN A 36 73.805 53.947 46.339 1.00 0.00 H

ATOM 502 2HD2 ASN A 36 74.667 53.237 47.664 1.00 0.00 H

ATOM 503 N ILE A 37 75.577 50.406 44.144 1.00 0.00 N

ATOM 504 CA ILE A 37 74.930 49.335 43.325 1.00 0.00 C

ATOM 505 C ILE A 37 75.594 49.304 41.929 1.00 0.00 C

ATOM 506 O ILE A 37 75.519 48.290 41.246 1.00 0.00 O

ATOM 507 CB ILE A 37 73.415 49.563 43.180 1.00 0.00 C

ATOM 508 CG1 ILE A 37 72.721 48.273 42.734 1.00 0.00 C

ATOM 509 CG2 ILE A 37 73.139 50.687 42.194 1.00 0.00 C

ATOM 510 CD1 ILE A 37 71.214 48.319 42.850 1.00 0.00 C

ATOM 511 H ILE A 37 75.205 51.337 44.083 1.00 0.00 H

ATOM 512 HA ILE A 37 75.081 48.379 43.825 1.00 0.00 H

ATOM 513 HB ILE A 37 72.992 49.828 44.149 1.00 0.00 H

ATOM 514 1HG1 ILE A 37 72.976 48.062 41.696 1.00 0.00 H

ATOM 515 2HG1 ILE A 37 73.082 47.439 43.334 1.00 0.00 H

ATOM 516 1HG2 ILE A 37 72.063 50.836 42.103 1.00 0.00 H

ATOM 517 2HG2 ILE A 37 73.602 51.607 42.551 1.00 0.00 H

ATOM 518 3HG2 ILE A 37 73.553 50.428 41.221 1.00 0.00 H

ATOM 519 1HD1 ILE A 37 70.795 47.369 42.517 1.00 0.00 H

ATOM 520 2HD1 ILE A 37 70.934 48.493 43.890 1.00 0.00 H

ATOM 521 3HD1 ILE A 37 70.826 49.123 42.230 1.00 0.00 H

ATOM 522 N SER A 38 76.249 50.386 41.515 1.00 0.00 N

ATOM 523 CA SER A 38 76.991 50.392 40.286 1.00 0.00 C

ATOM 524 C SER A 38 78.241 49.531 40.463 1.00 0.00 C

ATOM 525 O SER A 38 78.832 49.137 39.472 1.00 0.00 O

ATOM 526 CB SER A 38 77.362 51.812 39.902 1.00 0.00 C

ATOM 527 OG SER A 38 78.197 52.393 40.866 1.00 0.00 O

ATOM 528 H SER A 38 76.508 51.056 42.213 1.00 0.00 H

ATOM 529 HA SER A 38 76.363 49.970 39.501 1.00 0.00 H

ATOM 530 1HB SER A 38 77.864 51.807 38.936 1.00 0.00 H

ATOM 531 2HB SER A 38 76.456 52.409 39.797 1.00 0.00 H

ATOM 532 HG SER A 38 77.813 53.247 41.071 1.00 0.00 H

ATOM 533 N VAL A 39 78.705 49.320 41.690 1.00 0.00 N

ATOM 534 CA VAL A 39 79.840 48.418 41.925 1.00 0.00 C

ATOM 535 C VAL A 39 79.378 46.957 42.049 1.00 0.00 C

ATOM 536 O VAL A 39 79.856 46.075 41.327 1.00 0.00 O

ATOM 537 CB VAL A 39 80.588 48.828 43.206 1.00 0.00 C

ATOM 538 CG1 VAL A 39 81.690 47.828 43.522 1.00 0.00 C

ATOM 539 CG2 VAL A 39 81.163 50.226 43.046 1.00 0.00 C

ATOM 540 H VAL A 39 78.145 49.573 42.495 1.00 0.00 H

ATOM 541 HA VAL A 39 80.525 48.496 41.079 1.00 0.00 H

ATOM 542 HB VAL A 39 79.892 48.814 44.044 1.00 0.00 H

ATOM 543 1HG1 VAL A 39 82.211 48.131 44.432 1.00 0.00 H

ATOM 544 2HG1 VAL A 39 81.254 46.840 43.668 1.00 0.00 H

ATOM 545 3HG1 VAL A 39 82.398 47.793 42.695 1.00 0.00 H

ATOM 546 1HG2 VAL A 39 81.690 50.511 43.956 1.00 0.00 H

ATOM 547 2HG2 VAL A 39 81.854 50.243 42.204 1.00 0.00 H

ATOM 548 3HG2 VAL A 39 80.353 50.933 42.862 1.00 0.00 H

ATOM 549 N TYR A 40 78.317 46.746 42.838 1.00 0.00 N

ATOM 550 CA TYR A 40 77.509 45.533 42.823 1.00 0.00 C

ATOM 551 C TYR A 40 77.203 45.125 41.383 1.00 0.00 C

ATOM 552 O TYR A 40 76.644 45.921 40.650 1.00 0.00 O

ATOM 553 CB TYR A 40 76.212 45.734 43.611 1.00 0.00 C

ATOM 554 CG TYR A 40 75.308 44.522 43.621 1.00 0.00 C

ATOM 555 CD1 TYR A 40 75.537 43.493 44.523 1.00 0.00 C

ATOM 556 CD2 TYR A 40 74.250 44.440 42.728 1.00 0.00 C

ATOM 557 CE1 TYR A 40 74.712 42.384 44.530 1.00 0.00 C

ATOM 558 CE2 TYR A 40 73.424 43.332 42.738 1.00 0.00 C

ATOM 559 CZ TYR A 40 73.655 42.307 43.634 1.00 0.00 C

ATOM 560 OH TYR A 40 72.830 41.204 43.644 1.00 0.00 O

ATOM 561 H TYR A 40 77.831 47.604 43.087 1.00 0.00 H

ATOM 562 HA TYR A 40 78.079 44.732 43.293 1.00 0.00 H

ATOM 563 1HB TYR A 40 76.451 45.989 44.645 1.00 0.00 H

ATOM 564 2HB TYR A 40 75.656 46.570 43.188 1.00 0.00 H

ATOM 565 HD1 TYR A 40 76.370 43.558 45.223 1.00 0.00 H

ATOM 566 HD2 TYR A 40 74.069 45.248 42.020 1.00 0.00 H

ATOM 567 HE1 TYR A 40 74.893 41.577 45.240 1.00 0.00 H

ATOM 568 HE2 TYR A 40 72.592 43.266 42.037 1.00 0.00 H

ATOM 569 HH TYR A 40 73.172 40.558 44.267 1.00 0.00 H

ATOM 570 N PRO A 41 77.639 43.925 40.939 1.00 0.00 N

ATOM 571 CA PRO A 41 77.428 43.405 39.576 1.00 0.00 C

ATOM 572 C PRO A 41 76.094 43.841 38.913 1.00 0.00 C

ATOM 573 O PRO A 41 75.049 43.239 39.147 1.00 0.00 O

ATOM 574 CB PRO A 41 77.458 41.891 39.806 1.00 0.00 C

ATOM 575 CG PRO A 41 78.291 41.724 41.032 1.00 0.00 C

ATOM 576 CD PRO A 41 77.899 42.880 41.911 1.00 0.00 C

ATOM 577 HA PRO A 41 78.258 43.730 38.932 1.00 0.00 H

ATOM 578 1HB PRO A 41 76.435 41.507 39.931 1.00 0.00 H

ATOM 579 2HB PRO A 41 77.886 41.384 38.928 1.00 0.00 H

ATOM 580 1HG PRO A 41 78.089 40.748 41.499 1.00 0.00 H

ATOM 581 2HG PRO A 41 79.359 41.735 40.769 1.00 0.00 H

ATOM 582 1HD PRO A 41 77.007 42.611 42.497 1.00 0.00 H

ATOM 583 2HD PRO A 41 78.736 43.138 42.575 1.00 0.00 H

ATOM 584 N LEU A 42 76.189 44.780 37.966 1.00 0.00 N

ATOM 585 CA LEU A 42 75.070 45.093 37.049 1.00 0.00 C

ATOM 586 C LEU A 42 75.472 44.815 35.546 1.00 0.00 C

ATOM 587 O LEU A 42 75.974 45.709 34.863 1.00 0.00 O

ATOM 588 CB LEU A 42 74.653 46.561 37.221 1.00 0.00 C

ATOM 589 CG LEU A 42 74.133 46.945 38.614 1.00 0.00 C

ATOM 590 CD1 LEU A 42 73.877 48.446 38.663 1.00 0.00 C

ATOM 591 CD2 LEU A 42 72.864 46.162 38.916 1.00 0.00 C

ATOM 592 H LEU A 42 77.100 45.148 37.755 1.00 0.00 H

ATOM 593 HA LEU A 42 74.226 44.452 37.302 1.00 0.00 H

ATOM 594 1HB LEU A 42 75.509 47.193 37.000 1.00 0.00 H

ATOM 595 2HB LEU A 42 73.866 46.784 36.501 1.00 0.00 H

ATOM 596 HG LEU A 42 74.891 46.711 39.362 1.00 0.00 H

ATOM 597 1HD1 LEU A 42 73.510 48.717 39.652 1.00 0.00 H

ATOM 598 2HD1 LEU A 42 74.805 48.979 38.463 1.00 0.00 H

ATOM 599 3HD1 LEU A 42 73.135 48.712 37.911 1.00 0.00 H

ATOM 600 1HD2 LEU A 42 72.496 46.435 39.906 1.00 0.00 H

ATOM 601 2HD2 LEU A 42 72.107 46.397 38.169 1.00 0.00 H

ATOM 602 3HD2 LEU A 42 73.080 45.095 38.891 1.00 0.00 H

ATOM 603 N PRO A 43 75.556 43.517 35.214 1.00 0.00 N

ATOM 604 CA PRO A 43 76.125 42.967 33.966 1.00 0.00 C

ATOM 605 C PRO A 43 76.797 44.023 33.090 1.00 0.00 C

ATOM 606 O PRO A 43 76.242 44.430 32.071 1.00 0.00 O

ATOM 607 CB PRO A 43 74.894 42.376 33.269 1.00 0.00 C

ATOM 608 CG PRO A 43 74.012 41.944 34.392 1.00 0.00 C

ATOM 609 CD PRO A 43 74.204 42.999 35.448 1.00 0.00 C

ATOM 610 HA PRO A 43 76.854 42.182 34.216 1.00 0.00 H

ATOM 611 1HB PRO A 43 74.426 43.136 32.626 1.00 0.00 H

ATOM 612 2HB PRO A 43 75.195 41.543 32.618 1.00 0.00 H

ATOM 613 1HG PRO A 43 72.968 41.874 34.047 1.00 0.00 H

ATOM 614 2HG PRO A 43 74.300 40.940 34.735 1.00 0.00 H

ATOM 615 1HD PRO A 43 73.491 43.818 35.284 1.00 0.00 H

ATOM 616 2HD PRO A 43 74.062 42.552 36.442 1.00 0.00 H

ATOM 617 N MET A 44 77.979 44.478 33.534 1.00 0.00 N

ATOM 618 CA MET A 44 78.877 45.359 32.812 1.00 0.00 C

ATOM 619 C MET A 44 78.197 46.706 32.455 1.00 0.00 C

ATOM 620 O MET A 44 78.209 47.122 31.309 1.00 0.00 O

ATOM 621 CB MET A 44 79.380 44.658 31.553 1.00 0.00 C

ATOM 622 CG MET A 44 80.318 43.488 31.817 1.00 0.00 C

ATOM 623 SD MET A 44 79.492 42.106 32.631 1.00 0.00 S

ATOM 624 CE MET A 44 78.484 41.479 31.291 1.00 0.00 C

ATOM 625 H MET A 44 78.317 44.071 34.390 1.00 0.00 H

ATOM 626 HA MET A 44 79.726 45.590 33.455 1.00 0.00 H

ATOM 627 1HB MET A 44 78.533 44.284 30.982 1.00 0.00 H

ATOM 628 2HB MET A 44 79.910 45.375 30.923 1.00 0.00 H

ATOM 629 1HG MET A 44 80.734 43.134 30.873 1.00 0.00 H

ATOM 630 2HG MET A 44 81.142 43.817 32.450 1.00 0.00 H

ATOM 631 1HE MET A 44 77.910 40.619 31.637 1.00 0.00 H

ATOM 632 2HE MET A 44 77.799 42.258 30.953 1.00 0.00 H

ATOM 633 3HE MET A 44 79.125 41.176 30.462 1.00 0.00 H

ATOM 634 N SER A 45 77.562 47.368 33.421 1.00 0.00 N

ATOM 635 CA SER A 45 76.676 48.496 33.136 1.00 0.00 C

ATOM 636 C SER A 45 75.682 48.211 32.014 1.00 0.00 C

ATOM 637 O SER A 45 75.482 49.026 31.110 1.00 0.00 O

ATOM 638 CB SER A 45 77.503 49.715 32.777 1.00 0.00 C

ATOM 639 OG SER A 45 78.315 50.105 33.850 1.00 0.00 O

ATOM 640 H SER A 45 77.359 46.812 34.239 1.00 0.00 H

ATOM 641 HA SER A 45 76.092 48.713 34.032 1.00 0.00 H

ATOM 642 1HB SER A 45 78.125 49.489 31.911 1.00 0.00 H

ATOM 643 2HB SER A 45 76.841 50.534 32.501 1.00 0.00 H

ATOM 644 HG SER A 45 78.572 51.013 33.672 1.00 0.00 H

ATOM 645 N THR A 46 75.106 47.018 32.064 1.00 0.00 N

ATOM 646 CA THR A 46 74.253 46.450 31.028 1.00 0.00 C

ATOM 647 C THR A 46 74.885 46.230 29.652 1.00 0.00 C

ATOM 648 O THR A 46 74.403 46.767 28.643 1.00 0.00 O

ATOM 649 CB THR A 46 73.008 47.338 30.850 1.00 0.00 C

ATOM 650 OG1 THR A 46 72.473 47.678 32.136 1.00 0.00 O

ATOM 651 CG2 THR A 46 71.945 46.611 30.040 1.00 0.00 C

ATOM 652 H THR A 46 75.394 46.410 32.825 1.00 0.00 H

ATOM 653 HA THR A 46 73.941 45.454 31.344 1.00 0.00 H

ATOM 654 HB THR A 46 73.287 48.256 30.332 1.00 0.00 H

ATOM 655 HG1 THR A 46 71.581 48.016 32.031 1.00 0.00 H

ATOM 656 1HG2 THR A 46 71.073 47.253 29.923 1.00 0.00 H

ATOM 657 2HG2 THR A 46 72.345 46.361 29.057 1.00 0.00 H

ATOM 658 3HG2 THR A 46 71.656 45.696 30.556 1.00 0.00 H

ATOM 659 N LYS A 47 75.983 45.471 29.623 1.00 0.00 N

ATOM 660 CA LYS A 47 76.782 45.170 28.411 1.00 0.00 C

ATOM 661 C LYS A 47 77.322 46.460 27.772 1.00 0.00 C

ATOM 662 O LYS A 47 77.107 46.700 26.581 1.00 0.00 O

ATOM 663 CB LYS A 47 75.949 44.389 27.394 1.00 0.00 C

ATOM 664 CG LYS A 47 75.446 43.041 27.892 1.00 0.00 C

ATOM 665 CD LYS A 47 74.659 42.310 26.815 1.00 0.00 C

ATOM 666 CE LYS A 47 74.104 40.991 27.331 1.00 0.00 C

ATOM 667 NZ LYS A 47 73.277 40.296 26.307 1.00 0.00 N

ATOM 668 H LYS A 47 76.426 45.340 30.524 1.00 0.00 H

ATOM 669 HA LYS A 47 77.636 44.557 28.703 1.00 0.00 H

ATOM 670 1HB LYS A 47 75.082 44.983 27.102 1.00 0.00 H

ATOM 671 2HB LYS A 47 76.541 44.213 26.495 1.00 0.00 H

ATOM 672 1HG LYS A 47 76.293 42.425 28.193 1.00 0.00 H

ATOM 673 2HG LYS A 47 74.805 43.192 28.760 1.00 0.00 H

ATOM 674 1HD LYS A 47 73.831 42.937 26.481 1.00 0.00 H

ATOM 675 2HD LYS A 47 75.308 42.113 25.962 1.00 0.00 H

ATOM 676 1HE LYS A 47 74.928 40.338 27.617 1.00 0.00 H

ATOM 677 2HE LYS A 47 73.491 41.173 28.213 1.00 0.00 H

ATOM 678 1HZ LYS A 47 72.928 39.428 26.689 1.00 0.00 H

ATOM 679 2HZ LYS A 47 72.498 40.886 26.049 1.00 0.00 H

ATOM 680 3HZ LYS A 47 73.838 40.105 25.491 1.00 0.00 H

ATOM 681 N ARG A 48 78.098 47.222 28.528 1.00 0.00 N

ATOM 682 CA ARG A 48 78.768 48.419 28.010 1.00 0.00 C

ATOM 683 C ARG A 48 80.268 48.215 28.202 1.00 0.00 C

ATOM 684 O ARG A 48 80.824 47.250 27.687 1.00 0.00 O

ATOM 685 CB ARG A 48 78.311 49.679 28.730 1.00 0.00 C

ATOM 686 CG ARG A 48 76.846 50.035 28.529 1.00 0.00 C

ATOM 687 CD ARG A 48 76.568 50.439 27.128 1.00 0.00 C

ATOM 688 NE ARG A 48 75.170 50.785 26.931 1.00 0.00 N

ATOM 689 CZ ARG A 48 74.623 51.120 25.746 1.00 0.00 C

ATOM 690 NH1 ARG A 48 75.368 51.151 24.663 1.00 0.00 N

ATOM 691 NH2 ARG A 48 73.338 51.418 25.672 1.00 0.00 N

ATOM 692 H ARG A 48 78.308 46.935 29.478 1.00 0.00 H

ATOM 693 HA ARG A 48 78.519 48.525 26.954 1.00 0.00 H

ATOM 694 1HB ARG A 48 78.479 49.567 29.800 1.00 0.00 H

ATOM 695 2HB ARG A 48 78.907 50.527 28.393 1.00 0.00 H

ATOM 696 1HG ARG A 48 76.227 49.171 28.767 1.00 0.00 H

ATOM 697 2HG ARG A 48 76.581 50.864 29.185 1.00 0.00 H

ATOM 698 1HD ARG A 48 77.173 51.308 26.873 1.00 0.00 H

ATOM 699 2HD ARG A 48 76.813 49.617 26.456 1.00 0.00 H

ATOM 700 HE ARG A 48 74.563 50.773 27.741 1.00 0.00 H

ATOM 701 1HH1 ARG A 48 76.352 50.922 24.720 1.00 0.00 H

ATOM 702 2HH1 ARG A 48 74.959 51.401 23.776 1.00 0.00 H

ATOM 703 1HH2 ARG A 48 72.765 51.395 26.504 1.00 0.00 H

ATOM 704 2HH2 ARG A 48 72.929 51.669 24.784 1.00 0.00 H

ATOM 705 N ARG A 49 80.919 49.034 29.037 1.00 0.00 N

ATOM 706 CA ARG A 49 82.310 48.753 29.430 1.00 0.00 C

ATOM 707 C ARG A 49 82.363 48.544 30.921 1.00 0.00 C

ATOM 708 O ARG A 49 83.455 48.460 31.472 1.00 0.00 O

ATOM 709 CB ARG A 49 83.244 49.889 29.043 1.00 0.00 C

ATOM 710 CG ARG A 49 83.369 50.134 27.548 1.00 0.00 C

ATOM 711 CD ARG A 49 84.305 51.248 27.250 1.00 0.00 C

ATOM 712 NE ARG A 49 85.683 50.898 27.558 1.00 0.00 N

ATOM 713 CZ ARG A 49 86.725 51.747 27.473 1.00 0.00 C

ATOM 714 NH1 ARG A 49 86.531 52.990 27.086 1.00 0.00 N

ATOM 715 NH2 ARG A 49 87.942 51.331 27.777 1.00 0.00 N

ATOM 716 H ARG A 49 80.351 49.610 29.645 1.00 0.00 H

ATOM 717 HA ARG A 49 82.640 47.852 28.913 1.00 0.00 H

ATOM 718 1HB ARG A 49 82.900 50.816 29.501 1.00 0.00 H

ATOM 719 2HB ARG A 49 84.244 49.686 29.429 1.00 0.00 H

ATOM 720 1HG ARG A 49 83.745 49.232 27.064 1.00 0.00 H

ATOM 721 2HG ARG A 49 82.392 50.387 27.138 1.00 0.00 H

ATOM 722 1HD ARG A 49 84.247 51.499 26.191 1.00 0.00 H

ATOM 723 2HD ARG A 49 84.033 52.120 27.845 1.00 0.00 H

ATOM 724 HE ARG A 49 85.870 49.952 27.859 1.00 0.00 H

ATOM 725 1HH1 ARG A 49 85.600 53.306 26.855 1.00 0.00 H

ATOM 726 2HH1 ARG A 49 87.312 53.625 27.021 1.00 0.00 H

ATOM 727 1HH2 ARG A 49 88.090 50.377 28.072 1.00 0.00 H

ATOM 728 2HH2 ARG A 49 88.723 51.968 27.711 1.00 0.00 H

ATOM 729 N GLY A 50 81.222 48.600 31.610 1.00 0.00 N

ATOM 730 CA GLY A 50 81.236 48.705 33.049 1.00 0.00 C

ATOM 731 C GLY A 50 81.850 50.035 33.469 1.00 0.00 C

ATOM 732 O GLY A 50 81.657 51.043 32.783 1.00 0.00 O

ATOM 733 H GLY A 50 80.389 48.896 31.118 1.00 0.00 H

ATOM 734 1HA GLY A 50 80.217 48.621 33.430 1.00 0.00 H

ATOM 735 2HA GLY A 50 81.804 47.876 33.469 1.00 0.00 H

ATOM 736 N ALA A 51 82.696 50.009 34.496 1.00 0.00 N

ATOM 737 CA ALA A 51 83.499 51.194 34.780 1.00 0.00 C

ATOM 738 C ALA A 51 84.819 51.183 34.030 1.00 0.00 C

ATOM 739 O ALA A 51 85.242 52.187 33.455 1.00 0.00 O

ATOM 740 CB ALA A 51 83.763 51.561 36.224 1.00 0.00 C

ATOM 741 H ALA A 51 82.968 49.156 34.952 1.00 0.00 H

ATOM 742 HA ALA A 51 82.986 52.059 34.362 1.00 0.00 H

ATOM 743 1HB ALA A 51 84.373 52.461 36.264 1.00 0.00 H

ATOM 744 2HB ALA A 51 82.815 51.738 36.733 1.00 0.00 H

ATOM 745 3HB ALA A 51 84.288 50.744 36.716 1.00 0.00 H

ATOM 746 N ARG A 52 85.453 50.004 33.990 1.00 0.00 N

ATOM 747 CA ARG A 52 86.687 49.794 33.257 1.00 0.00 C

ATOM 748 C ARG A 52 86.945 48.363 32.834 1.00 0.00 C

ATOM 749 O ARG A 52 88.074 47.955 32.597 1.00 0.00 O

ATOM 750 CB ARG A 52 87.866 50.267 34.097 1.00 0.00 C

ATOM 751 CG ARG A 52 88.075 49.499 35.392 1.00 0.00 C

ATOM 752 CD ARG A 52 89.207 50.049 36.179 1.00 0.00 C

ATOM 753 NE ARG A 52 89.436 49.296 37.402 1.00 0.00 N

ATOM 754 CZ ARG A 52 90.387 49.581 38.311 1.00 0.00 C

ATOM 755 NH1 ARG A 52 91.190 50.605 38.122 1.00 0.00 N

ATOM 756 NH2 ARG A 52 90.514 48.833 39.392 1.00 0.00 N

ATOM 757 H ARG A 52 85.001 49.236 34.455 1.00 0.00 H

ATOM 758 HA ARG A 52 86.648 50.379 32.338 1.00 0.00 H

ATOM 759 1HB ARG A 52 88.782 50.183 33.514 1.00 0.00 H

ATOM 760 2HB ARG A 52 87.733 51.318 34.352 1.00 0.00 H

ATOM 761 1HG ARG A 52 87.172 49.559 36.000 1.00 0.00 H

ATOM 762 2HG ARG A 52 88.290 48.453 35.167 1.00 0.00 H

ATOM 763 1HD ARG A 52 90.118 50.013 35.582 1.00 0.00 H

ATOM 764 2HD ARG A 52 88.993 51.083 36.451 1.00 0.00 H

ATOM 765 HE ARG A 52 88.837 48.501 37.581 1.00 0.00 H

ATOM 766 1HH1 ARG A 52 91.093 51.178 37.295 1.00 0.00 H

ATOM 767 2HH1 ARG A 52 91.904 50.820 38.803 1.00 0.00 H

ATOM 768 1HH2 ARG A 52 89.896 48.046 39.539 1.00 0.00 H

ATOM 769 2HH2 ARG A 52 91.228 49.049 40.074 1.00 0.00 H

ATOM 770 N ILE A 53 85.867 47.594 32.700 1.00 0.00 N

ATOM 771 CA ILE A 53 85.922 46.213 32.209 1.00 0.00 C

ATOM 772 C ILE A 53 86.229 46.140 30.715 1.00 0.00 C

ATOM 773 O ILE A 53 87.007 45.336 30.216 1.00 0.00 O

ATOM 774 CB ILE A 53 84.597 45.480 32.487 1.00 0.00 C

ATOM 775 CG1 ILE A 53 84.401 45.287 33.991 1.00 0.00 C

ATOM 776 CG2 ILE A 53 84.567 44.142 31.766 1.00 0.00 C

ATOM 777 CD1 ILE A 53 83.016 44.816 34.372 1.00 0.00 C

ATOM 778 H ILE A 53 84.976 48.041 32.789 1.00 0.00 H

ATOM 779 HA ILE A 53 86.722 45.691 32.733 1.00 0.00 H

ATOM 780 HB ILE A 53 83.765 46.092 32.137 1.00 0.00 H

ATOM 781 1HG1 ILE A 53 85.121 44.559 34.362 1.00 0.00 H

ATOM 782 2HG1 ILE A 53 84.595 46.227 34.510 1.00 0.00 H

ATOM 783 1HG2 ILE A 53 83.624 43.638 31.974 1.00 0.00 H

ATOM 784 2HG2 ILE A 53 84.662 44.305 30.693 1.00 0.00 H

ATOM 785 3HG2 ILE A 53 85.393 43.522 32.115 1.00 0.00 H

ATOM 786 1HD1 ILE A 53 82.954 44.703 35.454 1.00 0.00 H

ATOM 787 2HD1 ILE A 53 82.278 45.550 34.043 1.00 0.00 H

ATOM 788 3HD1 ILE A 53 82.812 43.859 33.896 1.00 0.00 H

ATOM 789 N SER A 54 85.592 47.055 29.987 1.00 0.00 N

ATOM 790 CA SER A 54 85.623 47.115 28.565 1.00 0.00 C

ATOM 791 C SER A 54 85.115 45.888 27.823 1.00 0.00 C

ATOM 792 O SER A 54 85.622 45.600 26.743 1.00 0.00 O

ATOM 793 CB SER A 54 87.050 47.397 28.137 1.00 0.00 C

ATOM 794 OG SER A 54 87.498 48.618 28.657 1.00 0.00 O

ATOM 795 H SER A 54 84.905 47.612 30.473 1.00 0.00 H

ATOM 796 HA SER A 54 84.972 47.927 28.238 1.00 0.00 H

ATOM 797 1HB SER A 54 87.700 46.592 28.481 1.00 0.00 H

ATOM 798 2HB SER A 54 87.106 47.419 27.049 1.00 0.00 H

ATOM 799 HG SER A 54 87.841 48.422 29.533 1.00 0.00 H

ATOM 800 N GLY A 55 84.009 45.338 28.301 1.00 0.00 N

ATOM 801 CA GLY A 55 83.291 44.317 27.564 1.00 0.00 C

ATOM 802 C GLY A 55 82.106 43.602 28.141 1.00 0.00 C

ATOM 803 O GLY A 55 81.202 44.217 28.679 1.00 0.00 O

ATOM 804 H GLY A 55 83.468 45.798 29.012 1.00 0.00 H

ATOM 805 1HA GLY A 55 82.912 44.740 26.633 1.00 0.00 H

ATOM 806 2HA GLY A 55 83.975 43.513 27.296 1.00 0.00 H

ATOM 807 N ARG A 56 82.041 42.298 27.924 1.00 0.00 N

ATOM 808 CA ARG A 56 80.895 41.499 28.348 1.00 0.00 C

ATOM 809 C ARG A 56 81.353 40.218 29.114 1.00 0.00 C

ATOM 810 O ARG A 56 80.669 39.199 29.069 1.00 0.00 O

ATOM 811 CB ARG A 56 80.055 41.107 27.142 1.00 0.00 C

ATOM 812 CG ARG A 56 79.422 42.273 26.398 1.00 0.00 C

ATOM 813 CD ARG A 56 78.639 41.814 25.222 1.00 0.00 C

ATOM 814 NE ARG A 56 78.051 42.928 24.494 1.00 0.00 N

ATOM 815 CZ ARG A 56 77.340 42.807 23.356 1.00 0.00 C

ATOM 816 NH1 ARG A 56 77.135 41.619 22.831 1.00 0.00 N

ATOM 817 NH2 ARG A 56 76.846 43.882 22.768 1.00 0.00 N

ATOM 818 H ARG A 56 82.782 41.902 27.365 1.00 0.00 H

ATOM 819 HA ARG A 56 80.284 42.101 29.022 1.00 0.00 H

ATOM 820 1HB ARG A 56 80.672 40.560 26.431 1.00 0.00 H

ATOM 821 2HB ARG A 56 79.250 40.442 27.458 1.00 0.00 H

ATOM 822 1HG ARG A 56 78.750 42.811 27.069 1.00 0.00 H

ATOM 823 2HG ARG A 56 80.203 42.948 26.047 1.00 0.00 H

ATOM 824 1HD ARG A 56 79.288 41.267 24.542 1.00 0.00 H

ATOM 825 2HD ARG A 56 77.831 41.162 25.556 1.00 0.00 H

ATOM 826 HE ARG A 56 78.187 43.858 24.868 1.00 0.00 H

ATOM 827 1HH1 ARG A 56 77.512 40.797 23.280 1.00 0.00 H

ATOM 828 2HH1 ARG A 56 76.601 41.529 21.980 1.00 0.00 H

ATOM 829 1HH2 ARG A 56 77.003 44.797 23.172 1.00 0.00 H

ATOM 830 2HH2 ARG A 56 76.314 43.794 21.916 1.00 0.00 H

ATOM 831 N LYS A 57 82.485 40.317 29.809 1.00 0.00 N

ATOM 832 CA LYS A 57 82.757 39.296 30.853 1.00 0.00 C

ATOM 833 C LYS A 57 82.441 40.063 32.107 1.00 0.00 C

ATOM 834 O LYS A 57 82.654 41.270 32.181 1.00 0.00 O

ATOM 835 CB LYS A 57 84.195 38.775 30.848 1.00 0.00 C

ATOM 836 CG LYS A 57 84.581 38.007 29.591 1.00 0.00 C

ATOM 837 CD LYS A 57 86.010 37.491 29.675 1.00 0.00 C

ATOM 838 CE LYS A 57 86.401 36.730 28.417 1.00 0.00 C

ATOM 839 NZ LYS A 57 87.800 36.230 28.481 1.00 0.00 N

ATOM 840 H LYS A 57 82.707 41.242 30.133 1.00 0.00 H

ATOM 841 HA LYS A 57 82.106 38.439 30.677 1.00 0.00 H

ATOM 842 1HB LYS A 57 84.886 39.612 30.953 1.00 0.00 H

ATOM 843 2HB LYS A 57 84.347 38.116 31.703 1.00 0.00 H

ATOM 844 1HG LYS A 57 83.906 37.160 29.459 1.00 0.00 H

ATOM 845 2HG LYS A 57 84.490 38.659 28.723 1.00 0.00 H

ATOM 846 1HD LYS A 57 86.693 38.332 29.808 1.00 0.00 H

ATOM 847 2HD LYS A 57 86.108 36.828 30.534 1.00 0.00 H

ATOM 848 1HE LYS A 57 85.730 35.883 28.282 1.00 0.00 H

ATOM 849 2HE LYS A 57 86.302 37.384 27.551 1.00 0.00 H

ATOM 850 1HZ LYS A 57 88.020 35.732 27.629 1.00 0.00 H

ATOM 851 2HZ LYS A 57 88.433 37.010 28.587 1.00 0.00 H

ATOM 852 3HZ LYS A 57 87.900 35.606 29.269 1.00 0.00 H

ATOM 853 N MET A 58 81.806 39.376 33.052 1.00 0.00 N

ATOM 854 CA MET A 58 81.581 39.924 34.368 1.00 0.00 C

ATOM 855 C MET A 58 82.823 39.663 35.195 1.00 0.00 C

ATOM 856 O MET A 58 83.505 38.655 34.998 1.00 0.00 O

ATOM 857 CB MET A 58 80.342 39.308 35.013 1.00 0.00 C

ATOM 858 CG MET A 58 79.983 39.895 36.373 1.00 0.00 C

ATOM 859 SD MET A 58 78.451 39.214 37.039 1.00 0.00 S

ATOM 860 CE MET A 58 77.236 40.093 36.062 1.00 0.00 C

ATOM 861 H MET A 58 81.853 38.368 32.979 1.00 0.00 H

ATOM 862 HA MET A 58 81.422 40.998 34.273 1.00 0.00 H

ATOM 863 1HB MET A 58 79.484 39.443 34.355 1.00 0.00 H

ATOM 864 2HB MET A 58 80.490 38.235 35.141 1.00 0.00 H

ATOM 865 1HG MET A 58 80.786 39.692 37.078 1.00 0.00 H

ATOM 866 2HG MET A 58 79.871 40.974 36.285 1.00 0.00 H

ATOM 867 1HE MET A 58 76.235 39.779 36.359 1.00 0.00 H

ATOM 868 2HE MET A 58 77.344 41.167 36.225 1.00 0.00 H

ATOM 869 3HE MET A 58 77.386 39.869 35.005 1.00 0.00 H

ATOM 870 N SER A 59 83.047 40.525 36.207 1.00 0.00 N

ATOM 871 CA SER A 59 84.084 40.321 37.179 1.00 0.00 C

ATOM 872 C SER A 59 85.501 40.320 36.559 1.00 0.00 C

ATOM 873 O SER A 59 86.186 39.300 36.572 1.00 0.00 O

ATOM 874 CB SER A 59 83.829 39.014 37.902 1.00 0.00 C

ATOM 875 OG SER A 59 82.587 39.031 38.549 1.00 0.00 O

ATOM 876 H SER A 59 82.339 41.192 36.471 1.00 0.00 H

ATOM 877 HA SER A 59 84.053 41.143 37.895 1.00 0.00 H

ATOM 878 1HB SER A 59 83.859 38.191 37.186 1.00 0.00 H

ATOM 879 2HB SER A 59 84.620 38.841 38.630 1.00 0.00 H

ATOM 880 HG SER A 59 82.331 38.112 38.656 1.00 0.00 H

ATOM 881 N GLN A 60 85.920 41.470 36.043 1.00 0.00 N

ATOM 882 CA GLN A 60 87.244 41.588 35.456 1.00 0.00 C

ATOM 883 C GLN A 60 88.049 42.773 36.022 1.00 0.00 C

ATOM 884 O GLN A 60 89.104 42.550 36.588 1.00 0.00 O

ATOM 885 CB GLN A 60 87.124 41.720 33.936 1.00 0.00 C

ATOM 886 CG GLN A 60 86.416 40.557 33.266 1.00 0.00 C

ATOM 887 CD GLN A 60 87.160 39.246 33.440 1.00 0.00 C

ATOM 888 OE1 GLN A 60 88.342 39.137 33.104 1.00 0.00 O

ATOM 889 NE2 GLN A 60 86.471 38.243 33.971 1.00 0.00 N

ATOM 890 H GLN A 60 85.381 42.290 36.278 1.00 0.00 H

ATOM 891 HA GLN A 60 87.808 40.686 35.692 1.00 0.00 H

ATOM 892 1HB GLN A 60 86.579 42.632 33.692 1.00 0.00 H

ATOM 893 2HB GLN A 60 88.118 41.808 33.499 1.00 0.00 H

ATOM 894 1HG GLN A 60 85.424 40.447 33.701 1.00 0.00 H

ATOM 895 2HG GLN A 60 86.333 40.762 32.197 1.00 0.00 H

ATOM 896 1HE2 GLN A 60 86.909 37.352 34.111 1.00 0.00 H

ATOM 897 2HE2 GLN A 60 85.515 38.373 34.230 1.00 0.00 H

ATOM 898 N GLY A 61 87.492 43.975 35.932 1.00 0.00 N

ATOM 899 CA GLY A 61 88.184 45.208 36.366 1.00 0.00 C

ATOM 900 C GLY A 61 87.321 46.277 37.100 1.00 0.00 C

ATOM 901 O GLY A 61 87.802 47.073 37.891 1.00 0.00 O

ATOM 902 H GLY A 61 86.660 44.039 35.375 1.00 0.00 H

ATOM 903 1HA GLY A 61 89.002 44.949 37.039 1.00 0.00 H

ATOM 904 2HA GLY A 61 88.624 45.702 35.500 1.00 0.00 H

ATOM 905 N ALA A 62 86.011 46.199 36.894 1.00 0.00 N

ATOM 906 CA ALA A 62 85.059 46.898 37.759 1.00 0.00 C

ATOM 907 C ALA A 62 84.306 45.761 38.498 1.00 0.00 C

ATOM 908 O ALA A 62 84.447 44.642 38.045 1.00 0.00 O

ATOM 909 CB ALA A 62 84.171 47.842 36.959 1.00 0.00 C

ATOM 910 H ALA A 62 85.733 45.275 36.602 1.00 0.00 H

ATOM 911 HA ALA A 62 85.626 47.488 38.480 1.00 0.00 H

ATOM 912 1HB ALA A 62 83.476 48.343 37.633 1.00 0.00 H

ATOM 913 2HB ALA A 62 84.790 48.585 36.456 1.00 0.00 H

ATOM 914 3HB ALA A 62 83.612 47.274 36.217 1.00 0.00 H

ATOM 915 N PHE A 63 83.786 46.026 39.703 1.00 0.00 N

ATOM 916 CA PHE A 63 83.478 44.934 40.655 1.00 0.00 C

ATOM 917 C PHE A 63 84.810 44.267 41.011 1.00 0.00 C

ATOM 918 O PHE A 63 85.505 44.866 41.795 1.00 0.00 O

ATOM 919 CB PHE A 63 82.509 43.912 40.056 1.00 0.00 C

ATOM 920 CG PHE A 63 82.105 42.824 41.013 1.00 0.00 C

ATOM 921 CD1 PHE A 63 81.547 43.136 42.244 1.00 0.00 C

ATOM 922 CD2 PHE A 63 82.287 41.490 40.685 1.00 0.00 C

ATOM 923 CE1 PHE A 63 81.177 42.139 43.124 1.00 0.00 C

ATOM 924 CE2 PHE A 63 81.916 40.491 41.563 1.00 0.00 C

ATOM 925 CZ PHE A 63 81.360 40.815 42.784 1.00 0.00 C

ATOM 926 H PHE A 63 84.155 46.831 40.181 1.00 0.00 H

ATOM 927 HA PHE A 63 83.006 45.367 41.538 1.00 0.00 H

ATOM 928 1HB PHE A 63 81.606 44.420 39.720 1.00 0.00 H

ATOM 929 2HB PHE A 63 82.965 43.446 39.185 1.00 0.00 H

ATOM 930 HD1 PHE A 63 81.401 44.183 42.512 1.00 0.00 H

ATOM 931 HD2 PHE A 63 82.726 41.233 39.721 1.00 0.00 H

ATOM 932 HE1 PHE A 63 80.739 42.396 44.087 1.00 0.00 H

ATOM 933 HE2 PHE A 63 82.063 39.444 41.292 1.00 0.00 H

ATOM 934 HZ PHE A 63 81.071 40.027 43.477 1.00 0.00 H

ATOM 935 N LYS A 64 85.131 43.056 40.545 1.00 0.00 N

ATOM 936 CA LYS A 64 86.334 42.340 41.002 1.00 0.00 C

ATOM 937 C LYS A 64 87.743 42.975 41.077 1.00 0.00 C

ATOM 938 O LYS A 64 88.570 42.437 41.773 1.00 0.00 O

ATOM 939 CB LYS A 64 86.455 41.091 40.130 1.00 0.00 C

ATOM 940 CG LYS A 64 87.605 40.167 40.509 1.00 0.00 C

ATOM 941 CD LYS A 64 87.528 38.848 39.755 1.00 0.00 C

ATOM 942 CE LYS A 64 88.730 37.965 40.056 1.00 0.00 C

ATOM 943 NZ LYS A 64 88.834 37.643 41.505 1.00 0.00 N

ATOM 944 H LYS A 64 84.435 42.618 39.960 1.00 0.00 H

ATOM 945 HA LYS A 64 86.197 42.065 42.048 1.00 0.00 H

ATOM 946 1HB LYS A 64 85.531 40.515 40.190 1.00 0.00 H

ATOM 947 2HB LYS A 64 86.590 41.384 39.088 1.00 0.00 H

ATOM 948 1HG LYS A 64 88.554 40.653 40.276 1.00 0.00 H

ATOM 949 2HG LYS A 64 87.574 39.966 41.579 1.00 0.00 H

ATOM 950 1HD LYS A 64 86.618 38.320 40.040 1.00 0.00 H

ATOM 951 2HD LYS A 64 87.492 39.044 38.682 1.00 0.00 H

ATOM 952 1HE LYS A 64 88.647 37.036 39.495 1.00 0.00 H

ATOM 953 2HE LYS A 64 89.642 38.474 39.744 1.00 0.00 H

ATOM 954 1HZ LYS A 64 89.641 37.058 41.663 1.00 0.00 H

ATOM 955 2HZ LYS A 64 88.929 38.498 42.035 1.00 0.00 H

ATOM 956 3HZ LYS A 64 88.002 37.153 41.802 1.00 0.00 H

ATOM 957 N LYS A 65 87.953 44.185 40.577 1.00 0.00 N

ATOM 958 CA LYS A 65 89.150 44.930 40.988 1.00 0.00 C

ATOM 959 C LYS A 65 88.899 46.343 41.509 1.00 0.00 C

ATOM 960 O LYS A 65 89.897 46.999 41.727 1.00 0.00 O

ATOM 961 CB LYS A 65 90.130 45.004 39.817 1.00 0.00 C

ATOM 962 CG LYS A 65 90.669 43.655 39.363 1.00 0.00 C

ATOM 963 CD LYS A 65 91.488 42.989 40.459 1.00 0.00 C

ATOM 964 CE LYS A 65 91.950 41.601 40.042 1.00 0.00 C

ATOM 965 NZ LYS A 65 92.666 40.899 41.140 1.00 0.00 N

ATOM 966 H LYS A 65 87.156 44.661 40.188 1.00 0.00 H

ATOM 967 HA LYS A 65 89.621 44.400 41.816 1.00 0.00 H

ATOM 968 1HB LYS A 65 89.641 45.474 38.962 1.00 0.00 H

ATOM 969 2HB LYS A 65 90.980 45.629 40.093 1.00 0.00 H

ATOM 970 1HG LYS A 65 89.839 43.002 39.095 1.00 0.00 H

ATOM 971 2HG LYS A 65 91.297 43.791 38.484 1.00 0.00 H

ATOM 972 1HD LYS A 65 92.361 43.602 40.685 1.00 0.00 H

ATOM 973 2HD LYS A 65 90.884 42.904 41.363 1.00 0.00 H

ATOM 974 1HE LYS A 65 91.086 41.003 39.749 1.00 0.00 H

ATOM 975 2HE LYS A 65 92.617 41.683 39.184 1.00 0.00 H

ATOM 976 1HZ LYS A 65 92.957 39.985 40.824 1.00 0.00 H

ATOM 977 2HZ LYS A 65 93.480 41.436 41.409 1.00 0.00 H

ATOM 978 3HZ LYS A 65 92.052 40.802 41.937 1.00 0.00 H

ATOM 979 N VAL A 66 87.660 46.654 41.861 1.00 0.00 N

ATOM 980 CA VAL A 66 87.269 47.892 42.594 1.00 0.00 C

ATOM 981 C VAL A 66 86.713 47.619 43.996 1.00 0.00 C

ATOM 982 O VAL A 66 87.283 48.096 44.946 1.00 0.00 O

ATOM 983 CB VAL A 66 86.207 48.666 41.790 1.00 0.00 C

ATOM 984 CG1 VAL A 66 85.711 49.867 42.581 1.00 0.00 C

ATOM 985 CG2 VAL A 66 86.787 49.104 40.453 1.00 0.00 C

ATOM 986 H VAL A 66 86.941 45.967 41.700 1.00 0.00 H

ATOM 987 HA VAL A 66 88.153 48.520 42.709 1.00 0.00 H

ATOM 988 HB VAL A 66 85.348 48.017 41.618 1.00 0.00 H

ATOM 989 1HG1 VAL A 66 84.962 50.401 41.998 1.00 0.00 H

ATOM 990 2HG1 VAL A 66 85.268 49.527 43.518 1.00 0.00 H

ATOM 991 3HG1 VAL A 66 86.548 50.533 42.796 1.00 0.00 H

ATOM 992 1HG2 VAL A 66 86.031 49.649 39.891 1.00 0.00 H

ATOM 993 2HG2 VAL A 66 87.649 49.749 40.625 1.00 0.00 H

ATOM 994 3HG2 VAL A 66 87.098 48.224 39.886 1.00 0.00 H

ATOM 995 N LEU A 67 85.722 46.741 44.097 1.00 0.00 N

ATOM 996 CA LEU A 67 85.301 46.189 45.391 1.00 0.00 C

ATOM 997 C LEU A 67 86.400 45.350 45.967 1.00 0.00 C

ATOM 998 O LEU A 67 86.589 45.528 47.138 1.00 0.00 O

ATOM 999 CB LEU A 67 84.031 45.342 45.243 1.00 0.00 C

ATOM 1000 CG LEU A 67 83.533 44.659 46.525 1.00 0.00 C

ATOM 1001 CD1 LEU A 67 83.252 45.714 47.585 1.00 0.00 C

ATOM 1002 CD2 LEU A 67 82.286 43.845 46.214 1.00 0.00 C

ATOM 1003 H LEU A 67 85.539 46.198 43.269 1.00 0.00 H

ATOM 1004 HA LEU A 67 85.084 47.017 46.066 1.00 0.00 H

ATOM 1005 1HB LEU A 67 83.229 45.978 44.874 1.00 0.00 H

ATOM 1006 2HB LEU A 67 84.218 44.562 44.505 1.00 0.00 H

ATOM 1007 HG LEU A 67 84.311 43.999 46.910 1.00 0.00 H

ATOM 1008 1HD1 LEU A 67 82.897 45.230 48.495 1.00 0.00 H

ATOM 1009 2HD1 LEU A 67 84.164 46.268 47.801 1.00 0.00 H

ATOM 1010 3HD1 LEU A 67 82.487 46.401 47.219 1.00 0.00 H

ATOM 1011 1HD2 LEU A 67 81.932 43.361 47.124 1.00 0.00 H

ATOM 1012 2HD2 LEU A 67 81.507 44.505 45.830 1.00 0.00 H

ATOM 1013 3HD2 LEU A 67 82.521 43.088 45.467 1.00 0.00 H

ATOM 1014 N GLU A 68 86.978 44.437 45.202 1.00 0.00 N

ATOM 1015 CA GLU A 68 88.008 43.532 45.728 1.00 0.00 C

ATOM 1016 C GLU A 68 89.179 44.353 46.262 1.00 0.00 C

ATOM 1017 O GLU A 68 89.513 44.237 47.447 1.00 0.00 O

ATOM 1018 CB GLU A 68 88.490 42.561 44.648 1.00 0.00 C

ATOM 1019 CG GLU A 68 89.495 41.527 45.137 1.00 0.00 C

ATOM 1020 CD GLU A 68 89.960 40.604 44.043 1.00 0.00 C

ATOM 1021 OE1 GLU A 68 91.104 40.694 43.665 1.00 0.00 O

ATOM 1022 OE2 GLU A 68 89.172 39.810 43.587 1.00 0.00 O

ATOM 1023 H GLU A 68 86.711 44.236 44.252 1.00 0.00 H

ATOM 1024 HA GLU A 68 87.574 42.951 46.543 1.00 0.00 H

ATOM 1025 1HB GLU A 68 87.636 42.026 44.230 1.00 0.00 H

ATOM 1026 2HB GLU A 68 88.953 43.121 43.837 1.00 0.00 H

ATOM 1027 1HG GLU A 68 90.358 42.044 45.552 1.00 0.00 H

ATOM 1028 2HG GLU A 68 89.037 40.940 45.931 1.00 0.00 H

ATOM 1029 N LYS A 69 89.699 45.253 45.422 1.00 0.00 N

ATOM 1030 CA LYS A 69 90.697 46.207 45.850 1.00 0.00 C

ATOM 1031 C LYS A 69 90.254 46.983 47.031 1.00 0.00 C

ATOM 1032 O LYS A 69 90.940 46.803 48.000 1.00 0.00 O

ATOM 1033 CB LYS A 69 91.049 47.168 44.712 1.00 0.00 C

ATOM 1034 CG LYS A 69 92.089 48.218 45.075 1.00 0.00 C

ATOM 1035 CD LYS A 69 92.394 49.127 43.893 1.00 0.00 C

ATOM 1036 CE LYS A 69 93.390 50.213 44.271 1.00 0.00 C

ATOM 1037 NZ LYS A 69 93.701 51.107 43.122 1.00 0.00 N

ATOM 1038 H LYS A 69 89.241 45.493 44.557 1.00 0.00 H

ATOM 1039 HA LYS A 69 91.597 45.662 46.134 1.00 0.00 H

ATOM 1040 1HB LYS A 69 91.428 46.602 43.861 1.00 0.00 H

ATOM 1041 2HB LYS A 69 90.148 47.688 44.384 1.00 0.00 H

ATOM 1042 1HG LYS A 69 91.721 48.826 45.904 1.00 0.00 H

ATOM 1043 2HG LYS A 69 93.009 47.725 45.389 1.00 0.00 H

ATOM 1044 1HD LYS A 69 92.806 48.536 43.077 1.00 0.00 H

ATOM 1045 2HD LYS A 69 91.471 49.597 43.550 1.00 0.00 H

ATOM 1046 1HE LYS A 69 92.984 50.813 45.083 1.00 0.00 H

ATOM 1047 2HE LYS A 69 94.316 49.752 44.616 1.00 0.00 H

ATOM 1048 1HZ LYS A 69 94.364 51.811 43.413 1.00 0.00 H

ATOM 1049 2HZ LYS A 69 94.097 50.562 42.367 1.00 0.00 H

ATOM 1050 3HZ LYS A 69 92.853 51.554 42.806 1.00 0.00 H

ATOM 1051 N LEU A 70 89.123 47.661 46.995 1.00 0.00 N

ATOM 1052 CA LEU A 70 88.705 48.470 48.135 1.00 0.00 C

ATOM 1053 C LEU A 70 88.033 47.736 49.296 1.00 0.00 C

ATOM 1054 O LEU A 70 87.264 48.293 50.040 1.00 0.00 O

ATOM 1055 CB LEU A 70 87.750 49.560 47.633 1.00 0.00 C

ATOM 1056 CG LEU A 70 88.346 50.563 46.638 1.00 0.00 C

ATOM 1057 CD1 LEU A 70 87.256 51.506 46.148 1.00 0.00 C

ATOM 1058 CD2 LEU A 70 89.475 51.332 47.306 1.00 0.00 C

ATOM 1059 H LEU A 70 88.594 47.769 46.142 1.00 0.00 H

ATOM 1060 HA LEU A 70 89.589 48.933 48.573 1.00 0.00 H

ATOM 1061 1HB LEU A 70 86.899 49.081 47.150 1.00 0.00 H

ATOM 1062 2HB LEU A 70 87.384 50.124 48.490 1.00 0.00 H

ATOM 1063 HG LEU A 70 88.737 50.026 45.769 1.00 0.00 H

ATOM 1064 1HD1 LEU A 70 87.680 52.217 45.440 1.00 0.00 H

ATOM 1065 2HD1 LEU A 70 86.471 50.930 45.656 1.00 0.00 H

ATOM 1066 3HD1 LEU A 70 86.834 52.045 46.996 1.00 0.00 H

ATOM 1067 1HD2 LEU A 70 89.901 52.044 46.597 1.00 0.00 H

ATOM 1068 2HD2 LEU A 70 89.086 51.869 48.170 1.00 0.00 H

ATOM 1069 3HD2 LEU A 70 90.249 50.637 47.629 1.00 0.00 H

ATOM 1070 N SER A 71 88.452 46.497 49.529 1.00 0.00 N

ATOM 1071 CA SER A 71 88.042 45.648 50.627 1.00 0.00 C

ATOM 1072 C SER A 71 89.314 45.085 51.205 1.00 0.00 C

ATOM 1073 O SER A 71 89.749 45.530 52.262 1.00 0.00 O

ATOM 1074 CB SER A 71 87.115 44.542 50.166 1.00 0.00 C

ATOM 1075 OG SER A 71 86.742 43.719 51.237 1.00 0.00 O

ATOM 1076 H SER A 71 89.056 46.140 48.806 1.00 0.00 H

ATOM 1077 HA SER A 71 87.503 46.258 51.354 1.00 0.00 H

ATOM 1078 1HB SER A 71 86.226 44.977 49.711 1.00 0.00 H

ATOM 1079 2HB SER A 71 87.613 43.945 49.402 1.00 0.00 H

ATOM 1080 HG SER A 71 86.018 44.171 51.678 1.00 0.00 H

ATOM 1081 N THR A 72 89.996 44.252 50.410 1.00 0.00 N

ATOM 1082 CA THR A 72 91.242 43.589 50.779 1.00 0.00 C

ATOM 1083 C THR A 72 92.457 44.488 51.006 1.00 0.00 C

ATOM 1084 O THR A 72 93.360 44.115 51.744 1.00 0.00 O

ATOM 1085 CB THR A 72 91.606 42.547 49.705 1.00 0.00 C

ATOM 1086 OG1 THR A 72 91.793 43.204 48.443 1.00 0.00 O

ATOM 1087 CG2 THR A 72 90.504 41.508 49.572 1.00 0.00 C

ATOM 1088 H THR A 72 89.690 44.119 49.453 1.00 0.00 H

ATOM 1089 HA THR A 72 91.095 43.082 51.732 1.00 0.00 H

ATOM 1090 HB THR A 72 92.537 42.050 49.981 1.00 0.00 H

ATOM 1091 HG1 THR A 72 90.977 43.644 48.190 1.00 0.00 H

ATOM 1092 1HG2 THR A 72 90.779 40.781 48.809 1.00 0.00 H

ATOM 1093 2HG2 THR A 72 90.367 41.000 50.527 1.00 0.00 H

ATOM 1094 3HG2 THR A 72 89.574 41.998 49.288 1.00 0.00 H

ATOM 1095 N GLU A 73 92.472 45.708 50.456 1.00 0.00 N

ATOM 1096 CA GLU A 73 93.580 46.624 50.669 1.00 0.00 C

ATOM 1097 C GLU A 73 93.455 47.329 52.024 1.00 0.00 C

ATOM 1098 O GLU A 73 94.235 48.218 52.356 1.00 0.00 O

ATOM 1099 CB GLU A 73 93.635 47.659 49.542 1.00 0.00 C

ATOM 1100 CG GLU A 73 94.015 47.086 48.183 1.00 0.00 C

ATOM 1101 CD GLU A 73 95.425 46.572 48.139 1.00 0.00 C

ATOM 1102 OE1 GLU A 73 96.283 47.191 48.720 1.00 0.00 O

ATOM 1103 OE2 GLU A 73 95.648 45.556 47.520 1.00 0.00 O

ATOM 1104 H GLU A 73 91.679 45.950 49.876 1.00 0.00 H

ATOM 1105 HA GLU A 73 94.508 46.051 50.664 1.00 0.00 H

ATOM 1106 1HB GLU A 73 92.662 48.140 49.442 1.00 0.00 H

ATOM 1107 2HB GLU A 73 94.361 48.432 49.793 1.00 0.00 H

ATOM 1108 1HG GLU A 73 93.334 46.270 47.941 1.00 0.00 H

ATOM 1109 2HG GLU A 73 93.891 47.860 47.427 1.00 0.00 H

ATOM 1110 N GLY A 74 92.423 47.003 52.819 1.00 0.00 N

ATOM 1111 CA GLY A 74 92.256 47.609 54.123 1.00 0.00 C

ATOM 1112 C GLY A 74 91.236 48.700 54.161 1.00 0.00 C

ATOM 1113 O GLY A 74 91.125 49.385 55.167 1.00 0.00 O

ATOM 1114 H GLY A 74 91.725 46.350 52.479 1.00 0.00 H

ATOM 1115 1HA GLY A 74 91.965 46.845 54.844 1.00 0.00 H

ATOM 1116 2HA GLY A 74 93.207 48.021 54.457 1.00 0.00 H

ATOM 1117 N TYR A 75 90.419 48.791 53.130 1.00 0.00 N

ATOM 1118 CA TYR A 75 89.366 49.789 53.049 1.00 0.00 C

ATOM 1119 C TYR A 75 88.029 49.218 53.555 1.00 0.00 C

ATOM 1120 O TYR A 75 87.348 49.884 54.337 1.00 0.00 O

ATOM 1121 CB TYR A 75 89.226 50.297 51.613 1.00 0.00 C

ATOM 1122 CG TYR A 75 90.399 51.128 51.142 1.00 0.00 C

ATOM 1123 CD1 TYR A 75 91.376 50.558 50.339 1.00 0.00 C

ATOM 1124 CD2 TYR A 75 90.499 52.460 51.515 1.00 0.00 C

ATOM 1125 CE1 TYR A 75 92.447 51.316 49.909 1.00 0.00 C

ATOM 1126 CE2 TYR A 75 91.571 53.219 51.086 1.00 0.00 C

ATOM 1127 CZ TYR A 75 92.541 52.651 50.285 1.00 0.00 C

ATOM 1128 OH TYR A 75 93.610 53.407 49.858 1.00 0.00 O

ATOM 1129 H TYR A 75 90.620 48.177 52.356 1.00 0.00 H

ATOM 1130 HA TYR A 75 89.633 50.627 53.693 1.00 0.00 H

ATOM 1131 1HB TYR A 75 89.116 49.449 50.936 1.00 0.00 H

ATOM 1132 2HB TYR A 75 88.324 50.902 51.527 1.00 0.00 H

ATOM 1133 HD1 TYR A 75 91.297 49.510 50.044 1.00 0.00 H

ATOM 1134 HD2 TYR A 75 89.734 52.908 52.148 1.00 0.00 H

ATOM 1135 HE1 TYR A 75 93.214 50.868 49.278 1.00 0.00 H

ATOM 1136 HE2 TYR A 75 91.650 54.264 51.379 1.00 0.00 H

ATOM 1137 HH TYR A 75 94.194 52.861 49.327 1.00 0.00 H

ATOM 1138 N SER A 76 87.806 47.921 53.336 1.00 0.00 N

ATOM 1139 CA SER A 76 86.684 47.152 53.874 1.00 0.00 C

ATOM 1140 C SER A 76 85.386 47.720 53.403 1.00 0.00 C

ATOM 1141 O SER A 76 84.406 47.857 54.145 1.00 0.00 O

ATOM 1142 CB SER A 76 86.713 47.144 55.391 1.00 0.00 C

ATOM 1143 OG SER A 76 85.886 46.137 55.902 1.00 0.00 O

ATOM 1144 H SER A 76 88.541 47.451 52.838 1.00 0.00 H

ATOM 1145 HA SER A 76 86.768 46.124 53.521 1.00 0.00 H

ATOM 1146 1HB SER A 76 87.734 46.990 55.734 1.00 0.00 H

ATOM 1147 2HB SER A 76 86.383 48.113 55.764 1.00 0.00 H

ATOM 1148 HG SER A 76 86.154 46.011 56.815 1.00 0.00 H

ATOM 1149 N PHE A 77 85.304 48.144 52.139 1.00 0.00 N

ATOM 1150 CA PHE A 77 84.099 48.748 51.683 1.00 0.00 C

ATOM 1151 C PHE A 77 83.090 47.691 51.241 1.00 0.00 C

ATOM 1152 O PHE A 77 83.007 47.365 50.066 1.00 0.00 O

ATOM 1153 CB PHE A 77 84.400 49.707 50.531 1.00 0.00 C

ATOM 1154 CG PHE A 77 85.212 50.906 50.938 1.00 0.00 C

ATOM 1155 CD1 PHE A 77 85.861 51.677 49.987 1.00 0.00 C

ATOM 1156 CD2 PHE A 77 85.325 51.264 52.272 1.00 0.00 C

ATOM 1157 CE1 PHE A 77 86.608 52.778 50.359 1.00 0.00 C

ATOM 1158 CE2 PHE A 77 86.068 52.366 52.649 1.00 0.00 C

ATOM 1159 CZ PHE A 77 86.710 53.124 51.689 1.00 0.00 C

ATOM 1160 H PHE A 77 86.117 48.034 51.543 1.00 0.00 H

ATOM 1161 HA PHE A 77 83.661 49.312 52.507 1.00 0.00 H

ATOM 1162 1HB PHE A 77 84.944 49.180 49.749 1.00 0.00 H

ATOM 1163 2HB PHE A 77 83.465 50.061 50.098 1.00 0.00 H

ATOM 1164 HD1 PHE A 77 85.778 51.405 48.934 1.00 0.00 H

ATOM 1165 HD2 PHE A 77 84.817 50.666 53.030 1.00 0.00 H

ATOM 1166 HE1 PHE A 77 87.113 53.377 49.600 1.00 0.00 H

ATOM 1167 HE2 PHE A 77 86.149 52.637 53.701 1.00 0.00 H

ATOM 1168 HZ PHE A 77 87.298 53.993 51.986 1.00 0.00 H

ATOM 1169 N GLY A 78 82.433 47.061 52.208 1.00 0.00 N

ATOM 1170 CA GLY A 78 81.777 45.792 51.912 1.00 0.00 C

ATOM 1171 C GLY A 78 82.745 44.602 52.029 1.00 0.00 C

ATOM 1172 O GLY A 78 83.934 44.727 52.352 1.00 0.00 O

ATOM 1173 H GLY A 78 82.865 47.136 53.124 1.00 0.00 H

ATOM 1174 1HA GLY A 78 80.942 45.645 52.596 1.00 0.00 H

ATOM 1175 2HA GLY A 78 81.365 45.822 50.904 1.00 0.00 H

ATOM 1176 N ASN A 79 82.240 43.417 51.681 1.00 0.00 N

ATOM 1177 CA ASN A 79 83.117 42.251 51.575 1.00 0.00 C

ATOM 1178 C ASN A 79 83.599 42.038 50.149 1.00 0.00 C

ATOM 1179 O ASN A 79 82.769 42.046 49.260 1.00 0.00 O

ATOM 1180 CB ASN A 79 82.413 41.007 52.087 1.00 0.00 C

ATOM 1181 CG ASN A 79 82.142 41.062 53.564 1.00 0.00 C

ATOM 1182 OD1 ASN A 79 83.017 41.426 54.356 1.00 0.00 O

ATOM 1183 ND2 ASN A 79 80.943 40.708 53.951 1.00 0.00 N

ATOM 1184 H ASN A 79 81.368 43.402 51.173 1.00 0.00 H

ATOM 1185 HA ASN A 79 84.003 42.427 52.187 1.00 0.00 H

ATOM 1186 1HB ASN A 79 81.466 40.881 51.558 1.00 0.00 H

ATOM 1187 2HB ASN A 79 83.024 40.130 51.872 1.00 0.00 H

ATOM 1188 1HD2 ASN A 79 80.706 40.724 54.922 1.00 0.00 H

ATOM 1189 2HD2 ASN A 79 80.264 40.420 53.276 1.00 0.00 H

ATOM 1190 N ALA A 80 84.907 41.774 49.973 1.00 0.00 N

ATOM 1191 CA ALA A 80 85.482 41.528 48.652 1.00 0.00 C

ATOM 1192 C ALA A 80 84.700 40.478 47.829 1.00 0.00 C

ATOM 1193 O ALA A 80 84.758 39.275 48.092 1.00 0.00 O

ATOM 1194 CB ALA A 80 86.928 41.086 48.875 1.00 0.00 C

ATOM 1195 H ALA A 80 85.487 41.728 50.804 1.00 0.00 H

ATOM 1196 HA ALA A 80 85.450 42.461 48.089 1.00 0.00 H

ATOM 1197 1HB ALA A 80 87.402 40.889 47.914 1.00 0.00 H

ATOM 1198 2HB ALA A 80 87.473 41.874 49.395 1.00 0.00 H

ATOM 1199 3HB ALA A 80 86.942 40.178 49.479 1.00 0.00 H

ATOM 1200 N ILE A 81 84.025 40.983 46.786 1.00 0.00 N

ATOM 1201 CA ILE A 81 83.250 40.320 45.724 1.00 0.00 C

ATOM 1202 C ILE A 81 82.335 39.259 46.330 1.00 0.00 C

ATOM 1203 O ILE A 81 81.992 38.270 45.685 1.00 0.00 O

ATOM 1204 CB ILE A 81 84.172 39.672 44.677 1.00 0.00 C

ATOM 1205 CG1 ILE A 81 85.011 38.565 45.317 1.00 0.00 C

ATOM 1206 CG2 ILE A 81 85.070 40.720 44.036 1.00 0.00 C

ATOM 1207 CD1 ILE A 81 85.744 37.699 44.316 1.00 0.00 C

ATOM 1208 H ILE A 81 84.261 41.962 46.665 1.00 0.00 H

ATOM 1209 HA ILE A 81 82.640 41.070 45.222 1.00 0.00 H

ATOM 1210 HB ILE A 81 83.569 39.201 43.901 1.00 0.00 H

ATOM 1211 1HG1 ILE A 81 85.746 39.006 45.989 1.00 0.00 H

ATOM 1212 2HG1 ILE A 81 84.366 37.919 45.916 1.00 0.00 H

ATOM 1213 1HG2 ILE A 81 85.715 40.244 43.299 1.00 0.00 H

ATOM 1214 2HG2 ILE A 81 84.456 41.475 43.547 1.00 0.00 H

ATOM 1215 3HG2 ILE A 81 85.683 41.192 44.804 1.00 0.00 H

ATOM 1216 1HD1 ILE A 81 86.316 36.934 44.847 1.00 0.00 H

ATOM 1217 2HD1 ILE A 81 85.023 37.216 43.654 1.00 0.00 H

ATOM 1218 3HD1 ILE A 81 86.422 38.315 43.729 1.00 0.00 H

ATOM 1219 N ASP A 82 81.962 39.439 47.601 1.00 0.00 N

ATOM 1220 CA ASP A 82 81.008 38.577 48.244 1.00 0.00 C

ATOM 1221 C ASP A 82 79.602 39.193 48.321 1.00 0.00 C

ATOM 1222 O ASP A 82 78.652 38.457 48.440 1.00 0.00 O

ATOM 1223 CB ASP A 82 81.502 38.228 49.649 1.00 0.00 C

ATOM 1224 CG ASP A 82 82.765 37.377 49.640 1.00 0.00 C

ATOM 1225 OD1 ASP A 82 82.929 36.603 48.726 1.00 0.00 O

ATOM 1226 OD2 ASP A 82 83.553 37.510 50.545 1.00 0.00 O

ATOM 1227 H ASP A 82 82.235 40.290 48.075 1.00 0.00 H

ATOM 1228 HA ASP A 82 80.921 37.661 47.658 1.00 0.00 H

ATOM 1229 1HB ASP A 82 81.704 39.146 50.203 1.00 0.00 H

ATOM 1230 2HB ASP A 82 80.721 37.687 50.186 1.00 0.00 H

ATOM 1231 N LEU A 83 79.510 40.511 48.112 1.00 0.00 N

ATOM 1232 CA LEU A 83 78.222 41.225 48.117 1.00 0.00 C

ATOM 1233 C LEU A 83 77.286 40.697 47.061 1.00 0.00 C

ATOM 1234 O LEU A 83 76.088 40.816 47.195 1.00 0.00 O

ATOM 1235 CB LEU A 83 78.440 42.726 47.888 1.00 0.00 C

ATOM 1236 CG LEU A 83 79.206 43.463 48.992 1.00 0.00 C

ATOM 1237 CD1 LEU A 83 79.409 44.918 48.587 1.00 0.00 C

ATOM 1238 CD2 LEU A 83 78.434 43.364 50.299 1.00 0.00 C

ATOM 1239 H LEU A 83 80.348 41.039 47.923 1.00 0.00 H

ATOM 1240 HA LEU A 83 77.754 41.086 49.091 1.00 0.00 H

ATOM 1241 1HB LEU A 83 78.990 42.859 46.957 1.00 0.00 H

ATOM 1242 2HB LEU A 83 77.465 43.206 47.782 1.00 0.00 H

ATOM 1243 HG LEU A 83 80.190 43.011 49.116 1.00 0.00 H

ATOM 1244 1HD1 LEU A 83 79.955 45.442 49.372 1.00 0.00 H

ATOM 1245 2HD1 LEU A 83 79.980 44.958 47.659 1.00 0.00 H

ATOM 1246 3HD1 LEU A 83 78.440 45.392 48.439 1.00 0.00 H

ATOM 1247 1HD2 LEU A 83 78.979 43.887 51.085 1.00 0.00 H

ATOM 1248 2HD2 LEU A 83 77.450 43.816 50.177 1.00 0.00 H

ATOM 1249 3HD2 LEU A 83 78.319 42.314 50.574 1.00 0.00 H

ATOM 1250 N LYS A 84 77.867 40.237 45.956 1.00 0.00 N

ATOM 1251 CA LYS A 84 77.135 39.648 44.844 1.00 0.00 C

ATOM 1252 C LYS A 84 76.222 38.584 45.429 1.00 0.00 C

ATOM 1253 O LYS A 84 75.044 38.455 45.061 1.00 0.00 O

ATOM 1254 CB LYS A 84 78.078 39.052 43.798 1.00 0.00 C

ATOM 1255 CG LYS A 84 77.374 38.393 42.619 1.00 0.00 C

ATOM 1256 CD LYS A 84 78.373 37.888 41.590 1.00 0.00 C

ATOM 1257 CE LYS A 84 77.671 37.333 40.359 1.00 0.00 C

ATOM 1258 NZ LYS A 84 76.928 36.080 40.661 1.00 0.00 N

ATOM 1259 H LYS A 84 78.876 40.227 45.887 1.00 0.00 H

ATOM 1260 HA LYS A 84 76.548 40.430 44.362 1.00 0.00 H

ATOM 1261 1HB LYS A 84 78.727 39.835 43.404 1.00 0.00 H

ATOM 1262 2HB LYS A 84 78.716 38.304 44.268 1.00 0.00 H

ATOM 1263 1HG LYS A 84 76.777 37.552 42.976 1.00 0.00 H

ATOM 1264 2HG LYS A 84 76.707 39.113 42.144 1.00 0.00 H

ATOM 1265 1HD LYS A 84 79.029 38.708 41.286 1.00 0.00 H

ATOM 1266 2HD LYS A 84 78.986 37.103 42.032 1.00 0.00 H

ATOM 1267 1HE LYS A 84 76.971 38.074 39.976 1.00 0.00 H

ATOM 1268 2HE LYS A 84 78.407 37.125 39.582 1.00 0.00 H

ATOM 1269 1HZ LYS A 84 76.476 35.745 39.821 1.00 0.00 H

ATOM 1270 2HZ LYS A 84 77.571 35.380 41.001 1.00 0.00 H

ATOM 1271 3HZ LYS A 84 76.228 36.265 41.367 1.00 0.00 H

ATOM 1272 N SER A 85 76.797 37.715 46.271 1.00 0.00 N

ATOM 1273 CA SER A 85 76.081 36.633 46.878 1.00 0.00 C

ATOM 1274 C SER A 85 75.386 37.047 48.172 1.00 0.00 C

ATOM 1275 O SER A 85 74.361 36.435 48.400 1.00 0.00 O

ATOM 1276 CB SER A 85 77.037 35.487 47.146 1.00 0.00 C

ATOM 1277 OG SER A 85 77.976 35.835 48.127 1.00 0.00 O

ATOM 1278 H SER A 85 77.742 37.936 46.565 1.00 0.00 H

ATOM 1279 HA SER A 85 75.306 36.300 46.186 1.00 0.00 H

ATOM 1280 1HB SER A 85 76.475 34.614 47.473 1.00 0.00 H

ATOM 1281 2HB SER A 85 77.553 35.220 46.225 1.00 0.00 H

ATOM 1282 HG SER A 85 78.080 36.790 48.067 1.00 0.00 H

ATOM 1283 N HIS A 86 75.832 38.083 48.867 1.00 0.00 N

ATOM 1284 CA HIS A 86 75.137 38.490 50.105 1.00 0.00 C

ATOM 1285 C HIS A 86 73.864 39.339 49.971 1.00 0.00 C

ATOM 1286 O HIS A 86 72.898 39.048 50.645 1.00 0.00 O

ATOM 1287 CB HIS A 86 76.122 39.259 50.993 1.00 0.00 C

ATOM 1288 CG HIS A 86 77.224 38.408 51.543 1.00 0.00 C

ATOM 1289 ND1 HIS A 86 78.357 38.942 52.122 1.00 0.00 N

ATOM 1290 CD2 HIS A 86 77.368 37.064 51.602 1.00 0.00 C

ATOM 1291 CE1 HIS A 86 79.149 37.960 52.515 1.00 0.00 C

ATOM 1292 NE2 HIS A 86 78.574 36.811 52.211 1.00 0.00 N

ATOM 1293 H HIS A 86 76.675 38.572 48.617 1.00 0.00 H

ATOM 1294 HA HIS A 86 74.796 37.604 50.639 1.00 0.00 H

ATOM 1295 1HB HIS A 86 76.571 40.071 50.420 1.00 0.00 H

ATOM 1296 2HB HIS A 86 75.585 39.703 51.829 1.00 0.00 H

ATOM 1297 HD2 HIS A 86 76.662 36.319 51.235 1.00 0.00 H

ATOM 1298 HE1 HIS A 86 80.116 38.077 53.007 1.00 0.00 H

ATOM 1299 HE2 HIS A 86 78.952 35.894 52.394 1.00 0.00 H

ATOM 1300 N TRP A 87 73.833 40.247 49.005 1.00 0.00 N

ATOM 1301 CA TRP A 87 72.554 40.852 48.616 1.00 0.00 C

ATOM 1302 C TRP A 87 71.652 39.773 48.012 1.00 0.00 C

ATOM 1303 O TRP A 87 72.102 38.823 47.409 1.00 0.00 O

ATOM 1304 CB TRP A 87 72.766 41.983 47.610 1.00 0.00 C

ATOM 1305 CG TRP A 87 73.553 43.134 48.159 1.00 0.00 C

ATOM 1306 CD1 TRP A 87 74.325 43.131 49.282 1.00 0.00 C

ATOM 1307 CD2 TRP A 87 73.653 44.471 47.609 1.00 0.00 C

ATOM 1308 NE1 TRP A 87 74.892 44.367 49.471 1.00 0.00 N

ATOM 1309 CE2 TRP A 87 74.494 45.197 48.453 1.00 0.00 C

ATOM 1310 CE3 TRP A 87 73.106 45.096 46.480 1.00 0.00 C

ATOM 1311 CZ2 TRP A 87 74.804 46.528 48.213 1.00 0.00 C

ATOM 1312 CZ3 TRP A 87 73.415 46.427 46.241 1.00 0.00 C

ATOM 1313 CH2 TRP A 87 74.243 47.125 47.083 1.00 0.00 C

ATOM 1314 H TRP A 87 74.537 40.161 48.281 1.00 0.00 H

ATOM 1315 HA TRP A 87 72.083 41.269 49.507 1.00 0.00 H

ATOM 1316 1HB TRP A 87 73.289 41.599 46.732 1.00 0.00 H

ATOM 1317 2HB TRP A 87 71.799 42.359 47.274 1.00 0.00 H

ATOM 1318 HD1 TRP A 87 74.469 42.273 49.938 1.00 0.00 H

ATOM 1319 HE1 TRP A 87 75.504 44.624 50.231 1.00 0.00 H

ATOM 1320 HE3 TRP A 87 72.448 44.546 45.806 1.00 0.00 H

ATOM 1321 HZ2 TRP A 87 75.458 47.099 48.873 1.00 0.00 H

ATOM 1322 HZ3 TRP A 87 72.982 46.908 45.362 1.00 0.00 H

ATOM 1323 HH2 TRP A 87 74.466 48.169 46.864 1.00 0.00 H

ATOM 1324 N ALA A 88 70.346 39.917 48.255 1.00 0.00 N

ATOM 1325 CA ALA A 88 69.319 38.942 47.932 1.00 0.00 C

ATOM 1326 C ALA A 88 69.363 37.575 48.685 1.00 0.00 C

ATOM 1327 O ALA A 88 68.288 37.152 49.094 1.00 0.00 O

ATOM 1328 CB ALA A 88 69.306 38.734 46.415 1.00 0.00 C

ATOM 1329 H ALA A 88 70.095 40.662 48.884 1.00 0.00 H

ATOM 1330 HA ALA A 88 68.358 39.341 48.257 1.00 0.00 H

ATOM 1331 1HB ALA A 88 68.539 38.003 46.155 1.00 0.00 H

ATOM 1332 2HB ALA A 88 69.086 39.679 45.921 1.00 0.00 H

ATOM 1333 3HB ALA A 88 70.279 38.371 46.091 1.00 0.00 H

ATOM 1334 N ARG A 89 70.534 36.958 48.868 1.00 0.00 N

ATOM 1335 CA ARG A 89 70.635 35.726 49.686 1.00 0.00 C

ATOM 1336 C ARG A 89 70.323 35.948 51.157 1.00 0.00 C

ATOM 1337 O ARG A 89 69.603 35.147 51.740 1.00 0.00 O

ATOM 1338 CB ARG A 89 72.032 35.130 49.578 1.00 0.00 C

ATOM 1339 CG ARG A 89 72.220 33.808 50.301 1.00 0.00 C

ATOM 1340 CD ARG A 89 73.571 33.237 50.061 1.00 0.00 C

ATOM 1341 NE ARG A 89 73.739 31.949 50.714 1.00 0.00 N

ATOM 1342 CZ ARG A 89 74.182 31.781 51.974 1.00 0.00 C

ATOM 1343 NH1 ARG A 89 74.496 32.830 52.704 1.00 0.00 N

ATOM 1344 NH2 ARG A 89 74.303 30.567 52.478 1.00 0.00 N

ATOM 1345 H ARG A 89 71.380 37.350 48.456 1.00 0.00 H

ATOM 1346 HA ARG A 89 69.915 34.999 49.307 1.00 0.00 H

ATOM 1347 1HB ARG A 89 72.277 34.971 48.529 1.00 0.00 H

ATOM 1348 2HB ARG A 89 72.759 35.835 49.981 1.00 0.00 H

ATOM 1349 1HG ARG A 89 72.099 33.959 51.375 1.00 0.00 H

ATOM 1350 2HG ARG A 89 71.477 33.091 49.950 1.00 0.00 H

ATOM 1351 1HD ARG A 89 73.721 33.099 48.989 1.00 0.00 H

ATOM 1352 2HD ARG A 89 74.327 33.918 50.448 1.00 0.00 H

ATOM 1353 HE ARG A 89 73.507 31.119 50.183 1.00 0.00 H

ATOM 1354 1HH1 ARG A 89 74.405 33.761 52.319 1.00 0.00 H

ATOM 1355 2HH1 ARG A 89 74.829 32.706 53.650 1.00 0.00 H

ATOM 1356 1HH2 ARG A 89 74.062 29.761 51.917 1.00 0.00 H

ATOM 1357 2HH2 ARG A 89 74.633 30.441 53.423 1.00 0.00 H

ATOM 1358 N HIS A 90 70.862 37.029 51.722 1.00 0.00 N

ATOM 1359 CA HIS A 90 70.505 37.447 53.077 1.00 0.00 C

ATOM 1360 C HIS A 90 69.439 38.540 53.082 1.00 0.00 C

ATOM 1361 O HIS A 90 69.160 39.125 54.121 1.00 0.00 O

ATOM 1362 CB HIS A 90 71.745 37.940 53.827 1.00 0.00 C

ATOM 1363 CG HIS A 90 72.774 36.876 54.056 1.00 0.00 C

ATOM 1364 ND1 HIS A 90 72.624 35.890 55.008 1.00 0.00 N

ATOM 1365 CD2 HIS A 90 73.966 36.644 53.458 1.00 0.00 C

ATOM 1366 CE1 HIS A 90 73.679 35.096 54.984 1.00 0.00 C

ATOM 1367 NE2 HIS A 90 74.508 35.531 54.053 1.00 0.00 N

ATOM 1368 H HIS A 90 71.379 37.690 51.151 1.00 0.00 H

ATOM 1369 HA HIS A 90 70.093 36.598 53.623 1.00 0.00 H

ATOM 1370 1HB HIS A 90 72.212 38.750 53.267 1.00 0.00 H

ATOM 1371 2HB HIS A 90 71.449 38.341 54.797 1.00 0.00 H

ATOM 1372 HD1 HIS A 90 71.815 35.734 55.577 1.00 0.00 H

ATOM 1373 HD2 HIS A 90 74.503 37.153 52.659 1.00 0.00 H

ATOM 1374 HE1 HIS A 90 73.753 34.248 55.665 1.00 0.00 H

ATOM 1375 N GLY A 91 68.854 38.809 51.916 1.00 0.00 N

ATOM 1376 CA GLY A 91 67.743 39.751 51.753 1.00 0.00 C

ATOM 1377 C GLY A 91 68.158 41.221 51.717 1.00 0.00 C

ATOM 1378 O GLY A 91 68.038 41.867 50.675 1.00 0.00 O

ATOM 1379 H GLY A 91 69.160 38.263 51.129 1.00 0.00 H

ATOM 1380 1HA GLY A 91 67.211 39.529 50.828 1.00 0.00 H

ATOM 1381 2HA GLY A 91 67.035 39.622 52.571 1.00 0.00 H

ATOM 1382 N THR A 92 68.714 41.700 52.828 1.00 0.00 N

ATOM 1383 CA THR A 92 69.126 43.087 52.976 1.00 0.00 C

ATOM 1384 C THR A 92 69.982 43.569 51.830 1.00 0.00 C

ATOM 1385 O THR A 92 71.187 43.366 51.804 1.00 0.00 O

ATOM 1386 CB THR A 92 69.890 43.294 54.296 1.00 0.00 C

ATOM 1387 OG1 THR A 92 69.046 42.948 55.401 1.00 0.00 O

ATOM 1388 CG2 THR A 92 70.332 44.742 54.435 1.00 0.00 C

ATOM 1389 H THR A 92 68.727 41.075 53.624 1.00 0.00 H

ATOM 1390 HA THR A 92 68.234 43.714 52.991 1.00 0.00 H

ATOM 1391 HB THR A 92 70.769 42.649 54.311 1.00 0.00 H

ATOM 1392 HG1 THR A 92 68.875 42.003 55.386 1.00 0.00 H

ATOM 1393 1HG2 THR A 92 70.871 44.871 55.374 1.00 0.00 H

ATOM 1394 2HG2 THR A 92 70.984 45.006 53.602 1.00 0.00 H

ATOM 1395 3HG2 THR A 92 69.457 45.391 54.430 1.00 0.00 H

ATOM 1396 N ASN A 93 69.352 44.246 50.873 1.00 0.00 N

ATOM 1397 CA ASN A 93 70.060 44.769 49.711 1.00 0.00 C

ATOM 1398 C ASN A 93 70.821 46.072 49.973 1.00 0.00 C

ATOM 1399 O ASN A 93 71.512 46.565 49.104 1.00 0.00 O

ATOM 1400 CB ASN A 93 69.083 44.961 48.566 1.00 0.00 C

ATOM 1401 CG ASN A 93 68.614 43.657 47.981 1.00 0.00 C

ATOM 1402 OD1 ASN A 93 69.359 42.671 47.955 1.00 0.00 O

ATOM 1403 ND2 ASN A 93 67.392 43.633 47.513 1.00 0.00 N

ATOM 1404 H ASN A 93 68.346 44.186 50.863 1.00 0.00 H

ATOM 1405 HA ASN A 93 70.820 44.045 49.414 1.00 0.00 H

ATOM 1406 1HB ASN A 93 68.216 45.521 48.916 1.00 0.00 H

ATOM 1407 2HB ASN A 93 69.556 45.548 47.780 1.00 0.00 H

ATOM 1408 1HD2 ASN A 93 67.026 42.791 47.113 1.00 0.00 H

ATOM 1409 2HD2 ASN A 93 66.824 44.453 47.555 1.00 0.00 H

ATOM 1410 N LYS A 94 70.725 46.551 51.212 1.00 0.00 N

ATOM 1411 CA LYS A 94 71.531 47.665 51.733 1.00 0.00 C

ATOM 1412 C LYS A 94 72.839 47.260 52.347 1.00 0.00 C

ATOM 1413 O LYS A 94 73.544 48.136 52.841 1.00 0.00 O

ATOM 1414 CB LYS A 94 70.727 48.453 52.768 1.00 0.00 C

ATOM 1415 CG LYS A 94 69.483 49.133 52.214 1.00 0.00 C

ATOM 1416 CD LYS A 94 68.714 49.856 53.311 1.00 0.00 C

ATOM 1417 CE LYS A 94 67.451 50.507 52.765 1.00 0.00 C

ATOM 1418 NZ LYS A 94 66.645 51.144 53.841 1.00 0.00 N

ATOM 1419 H LYS A 94 70.171 46.031 51.873 1.00 0.00 H

ATOM 1420 HA LYS A 94 71.783 48.327 50.904 1.00 0.00 H

ATOM 1421 1HB LYS A 94 70.414 47.784 53.571 1.00 0.00 H

ATOM 1422 2HB LYS A 94 71.359 49.223 53.212 1.00 0.00 H

ATOM 1423 1HG LYS A 94 69.772 49.854 51.449 1.00 0.00 H

ATOM 1424 2HG LYS A 94 68.832 48.387 51.758 1.00 0.00 H

ATOM 1425 1HD LYS A 94 68.438 49.146 54.090 1.00 0.00 H

ATOM 1426 2HD LYS A 94 69.346 50.626 53.752 1.00 0.00 H

ATOM 1427 1HE LYS A 94 67.721 51.266 52.031 1.00 0.00 H

ATOM 1428 2HE LYS A 94 66.839 49.755 52.269 1.00 0.00 H

ATOM 1429 1HZ LYS A 94 65.818 51.564 53.439 1.00 0.00 H

ATOM 1430 2HZ LYS A 94 66.372 50.446 54.518 1.00 0.00 H

ATOM 1431 3HZ LYS A 94 67.196 51.858 54.297 1.00 0.00 H

ATOM 1432 N PHE A 95 73.131 45.956 52.371 1.00 0.00 N

ATOM 1433 CA PHE A 95 74.276 45.456 53.101 1.00 0.00 C

ATOM 1434 C PHE A 95 75.653 45.939 52.602 1.00 0.00 C

ATOM 1435 O PHE A 95 76.350 45.179 51.944 1.00 0.00 O

ATOM 1436 CB PHE A 95 74.242 43.927 53.071 1.00 0.00 C

ATOM 1437 CG PHE A 95 75.407 43.283 53.767 1.00 0.00 C

ATOM 1438 CD1 PHE A 95 75.555 43.384 55.142 1.00 0.00 C

ATOM 1439 CD2 PHE A 95 76.358 42.572 53.049 1.00 0.00 C

ATOM 1440 CE1 PHE A 95 76.626 42.794 55.784 1.00 0.00 C

ATOM 1441 CE2 PHE A 95 77.429 41.978 53.687 1.00 0.00 C

ATOM 1442 CZ PHE A 95 77.563 42.090 55.058 1.00 0.00 C

ATOM 1443 H PHE A 95 72.452 45.286 52.041 1.00 0.00 H

ATOM 1444 HA PHE A 95 74.207 45.803 54.133 1.00 0.00 H

ATOM 1445 1HB PHE A 95 73.327 43.574 53.544 1.00 0.00 H

ATOM 1446 2HB PHE A 95 74.231 43.583 52.038 1.00 0.00 H

ATOM 1447 HD1 PHE A 95 74.814 43.941 55.719 1.00 0.00 H

ATOM 1448 HD2 PHE A 95 76.251 42.486 51.967 1.00 0.00 H

ATOM 1449 HE1 PHE A 95 76.732 42.882 56.866 1.00 0.00 H

ATOM 1450 HE2 PHE A 95 78.169 41.423 53.112 1.00 0.00 H

ATOM 1451 HZ PHE A 95 78.408 41.623 55.563 1.00 0.00 H

ATOM 1452 N VAL A 96 76.070 47.113 53.051 1.00 0.00 N

ATOM 1453 CA VAL A 96 77.545 47.423 53.064 1.00 0.00 C

ATOM 1454 C VAL A 96 78.129 47.673 54.425 1.00 0.00 C

ATOM 1455 O VAL A 96 77.963 48.754 54.977 1.00 0.00 O

ATOM 1456 CB VAL A 96 77.839 48.667 52.206 1.00 0.00 C

ATOM 1457 CG1 VAL A 96 79.328 48.980 52.212 1.00 0.00 C

ATOM 1458 CG2 VAL A 96 77.340 48.446 50.786 1.00 0.00 C

ATOM 1459 H VAL A 96 75.526 47.520 53.805 1.00 0.00 H

ATOM 1460 HA VAL A 96 78.081 46.573 52.642 1.00 0.00 H

ATOM 1461 HB VAL A 96 77.328 49.527 52.641 1.00 0.00 H

ATOM 1462 1HG1 VAL A 96 79.517 49.862 51.601 1.00 0.00 H

ATOM 1463 2HG1 VAL A 96 79.655 49.170 53.234 1.00 0.00 H

ATOM 1464 3HG1 VAL A 96 79.879 48.132 51.805 1.00 0.00 H

ATOM 1465 1HG2 VAL A 96 77.550 49.330 50.185 1.00 0.00 H

ATOM 1466 2HG2 VAL A 96 77.847 47.583 50.353 1.00 0.00 H

ATOM 1467 3HG2 VAL A 96 76.265 48.266 50.802 1.00 0.00 H

ATOM 1468 N THR A 97 78.783 46.664 54.989 1.00 0.00 N

ATOM 1469 CA THR A 97 79.398 46.799 56.310 1.00 0.00 C

ATOM 1470 C THR A 97 80.874 47.049 56.231 1.00 0.00 C

ATOM 1471 O THR A 97 81.591 46.409 55.462 1.00 0.00 O

ATOM 1472 CB THR A 97 79.151 45.545 57.168 1.00 0.00 C

ATOM 1473 OG1 THR A 97 77.744 45.376 57.379 1.00 0.00 O

ATOM 1474 CG2 THR A 97 79.848 45.675 58.514 1.00 0.00 C

ATOM 1475 H THR A 97 78.944 45.828 54.446 1.00 0.00 H

ATOM 1476 HA THR A 97 78.949 47.654 56.815 1.00 0.00 H

ATOM 1477 HB THR A 97 79.535 44.667 56.651 1.00 0.00 H

ATOM 1478 HG1 THR A 97 77.503 45.734 58.237 1.00 0.00 H

ATOM 1479 1HG2 THR A 97 79.664 44.780 59.108 1.00 0.00 H

ATOM 1480 2HG2 THR A 97 80.922 45.793 58.359 1.00 0.00 H

ATOM 1481 3HG2 THR A 97 79.462 46.546 59.042 1.00 0.00 H

ATOM 1482 N ILE A 98 81.308 48.116 56.899 1.00 0.00 N

ATOM 1483 CA ILE A 98 82.664 48.592 56.746 1.00 0.00 C

ATOM 1484 C ILE A 98 83.296 48.490 58.117 1.00 0.00 C

ATOM 1485 O ILE A 98 82.798 49.117 59.040 1.00 0.00 O

ATOM 1486 CB ILE A 98 82.719 50.041 56.224 1.00 0.00 C

ATOM 1487 CG1 ILE A 98 82.024 50.143 54.865 1.00 0.00 C

ATOM 1488 CG2 ILE A 98 84.162 50.515 56.125 1.00 0.00 C

ATOM 1489 CD1 ILE A 98 81.916 51.558 54.341 1.00 0.00 C

ATOM 1490 H ILE A 98 80.626 48.756 57.265 1.00 0.00 H

ATOM 1491 HA ILE A 98 83.173 47.958 56.021 1.00 0.00 H

ATOM 1492 HB ILE A 98 82.177 50.693 56.908 1.00 0.00 H

ATOM 1493 1HG1 ILE A 98 82.568 49.551 54.132 1.00 0.00 H

ATOM 1494 2HG1 ILE A 98 81.018 49.729 54.938 1.00 0.00 H

ATOM 1495 1HG2 ILE A 98 84.182 51.538 55.756 1.00 0.00 H

ATOM 1496 2HG2 ILE A 98 84.625 50.475 57.112 1.00 0.00 H

ATOM 1497 3HG2 ILE A 98 84.711 49.868 55.441 1.00 0.00 H

ATOM 1498 1HD1 ILE A 98 81.410 51.551 53.374 1.00 0.00 H

ATOM 1499 2HD1 ILE A 98 81.342 52.163 55.045 1.00 0.00 H

ATOM 1500 3HD1 ILE A 98 82.912 51.982 54.226 1.00 0.00 H

ATOM 1501 N ARG A 99 84.287 47.608 58.272 1.00 0.00 N

ATOM 1502 CA ARG A 99 84.813 47.293 59.598 1.00 0.00 C

ATOM 1503 C ARG A 99 86.011 46.351 59.488 1.00 0.00 C

ATOM 1504 O ARG A 99 86.676 46.179 58.467 1.00 0.00 O

ATOM 1505 OXT ARG A 99 86.363 45.714 60.442 1.00 0.00 O

ATOM 1506 CB ARG A 99 83.740 46.652 60.466 1.00 0.00 C

ATOM 1507 CG ARG A 99 84.169 46.346 61.892 1.00 0.00 C

ATOM 1508 CD ARG A 99 83.044 45.816 62.704 1.00 0.00 C

ATOM 1509 NE ARG A 99 83.455 45.504 64.063 1.00 0.00 N

ATOM 1510 CZ ARG A 99 82.649 44.969 65.002 1.00 0.00 C

ATOM 1511 NH1 ARG A 99 81.396 44.694 64.714 1.00 0.00 N

ATOM 1512 NH2 ARG A 99 83.119 44.723 66.212 1.00 0.00 N

ATOM 1513 H ARG A 99 84.526 47.020 57.480 1.00 0.00 H

ATOM 1514 HA ARG A 99 85.134 48.220 60.072 1.00 0.00 H

ATOM 1515 1HB ARG A 99 82.873 47.309 60.517 1.00 0.00 H

ATOM 1516 2HB ARG A 99 83.415 45.716 60.013 1.00 0.00 H

ATOM 1517 1HG ARG A 99 84.965 45.601 61.881 1.00 0.00 H

ATOM 1518 2HG ARG A 99 84.533 47.258 62.367 1.00 0.00 H

ATOM 1519 1HD ARG A 99 82.246 46.557 62.750 1.00 0.00 H

ATOM 1520 2HD ARG A 99 82.662 44.903 62.244 1.00 0.00 H

ATOM 1521 HE ARG A 99 84.412 45.701 64.322 1.00 0.00 H

ATOM 1522 1HH1 ARG A 99 81.037 44.883 63.789 1.00 0.00 H

ATOM 1523 2HH1 ARG A 99 80.792 44.295 65.418 1.00 0.00 H

ATOM 1524 1HH2 ARG A 99 84.082 44.933 66.433 1.00 0.00 H

ATOM 1525 2HH2 ARG A 99 82.515 44.323 66.916 1.00 0.00 H

TER

complete: res ss phi psi omega frag rama seq

1 L 0.000 0.000 0.000 ---- 0.00 M

2 L 0.000 0.000 0.000 ---- 0.00 D

3 L 0.000 0.000 0.000 ---- 0.00 I

4 L 0.000 0.000 0.000 ---- 0.00 S

5 L 0.000 0.000 0.000 ---- 0.00 G

6 L 0.000 0.000 0.000 ---- 0.00 L

7 L 0.000 0.000 0.000 ---- 0.00 P

8 L 0.000 0.000 0.000 ---- 0.00 V

9 L 0.000 0.000 0.000 ---- 0.00 P

10 L 0.000 0.000 0.000 ---- 0.00 V

11 L 0.000 0.000 0.000 ---- 0.00 C

12 L 0.000 0.000 0.000 ---- 0.00 T

13 L 0.000 0.000 0.000 ---- 0.00 C

14 L 0.000 0.000 0.000 ---- 0.00 T

15 L 0.000 0.000 0.000 ---- 0.00 G

16 L 0.000 0.000 0.000 ---- 0.00 T

17 L 0.000 0.000 0.000 ---- 0.00 P

18 L 0.000 0.000 0.000 ---- 0.00 Q

19 L 0.000 0.000 0.000 ---- 0.00 Q

20 L 0.000 0.000 0.000 ---- 0.00 C

21 L 0.000 0.000 0.000 ---- 0.00 Y

22 L 0.000 0.000 0.000 ---- 0.00 R

23 L 0.000 0.000 0.000 ---- 0.00 W

24 L 0.000 0.000 0.000 ---- 0.00 G

25 L 0.000 0.000 0.000 ---- 0.00 C

26 L 0.000 0.000 0.000 ---- 0.00 G

27 L 0.000 0.000 0.000 ---- 0.00 G

28 L 0.000 0.000 0.000 ---- 0.00 W

29 L 0.000 0.000 0.000 ---- 0.00 Q

30 E 0.000 0.000 0.000 ---- 0.00 S

31 L 0.000 0.000 0.000 ---- 0.00 A

32 L 0.000 0.000 0.000 ---- 0.00 C

33 L 0.000 0.000 0.000 ---- 0.00 C

34 E 0.000 0.000 0.000 ---- 0.00 T

35 L 0.000 0.000 0.000 ---- 0.00 T

36 L 0.000 0.000 0.000 ---- 0.00 N

37 L 0.000 0.000 0.000 ---- 0.00 I

38 L 0.000 0.000 0.000 ---- 0.00 S

39 L 0.000 0.000 0.000 ---- 0.00 V

40 L 0.000 0.000 0.000 ---- 0.00 Y

41 L 0.000 0.000 0.000 ---- 0.00 P

42 H 0.000 0.000 0.000 ---- 0.00 L

43 H 0.000 0.000 0.000 ---- 0.00 P

44 H 0.000 0.000 0.000 ---- 0.00 M

45 H 0.000 0.000 0.000 ---- 0.00 S

46 H 0.000 0.000 0.000 ---- 0.00 T

47 L 0.000 0.000 0.000 ---- 0.00 K

48 L 0.000 0.000 0.000 ---- 0.00 R

49 L 0.000 0.000 0.000 ---- 0.00 R

50 L 0.000 0.000 0.000 ---- 0.00 G

51 L 0.000 0.000 0.000 ---- 0.00 A

52 L 0.000 0.000 0.000 ---- 0.00 R

53 L 0.000 0.000 0.000 ---- 0.00 I

54 L 0.000 0.000 0.000 ---- 0.00 S

55 L 0.000 0.000 0.000 ---- 0.00 G

56 L 0.000 0.000 0.000 ---- 0.00 R

57 L 0.000 0.000 0.000 ---- 0.00 K

58 L 0.000 0.000 0.000 ---- 0.00 M

59 L 0.000 0.000 0.000 ---- 0.00 S

60 L 0.000 0.000 0.000 ---- 0.00 Q

61 L 0.000 0.000 0.000 ---- 0.00 G

62 L 0.000 0.000 0.000 ---- 0.00 A

63 L 0.000 0.000 0.000 ---- 0.00 F

64 L 0.000 0.000 0.000 ---- 0.00 K

65 L 0.000 0.000 0.000 ---- 0.00 K

66 L 0.000 0.000 0.000 ---- 0.00 V

67 L 0.000 0.000 0.000 ---- 0.00 L

68 H 0.000 0.000 0.000 ---- 0.00 E

69 H 0.000 0.000 0.000 ---- 0.00 K

70 H 0.000 0.000 0.000 ---- 0.00 L

71 H 0.000 0.000 0.000 ---- 0.00 S

72 L 0.000 0.000 0.000 ---- 0.00 T

73 L 0.000 0.000 0.000 ---- 0.00 E

74 L 0.000 0.000 0.000 ---- 0.00 G

75 L 0.000 0.000 0.000 ---- 0.00 Y

76 L 0.000 0.000 0.000 ---- 0.00 S

77 L 0.000 0.000 0.000 ---- 0.00 F

78 L 0.000 0.000 0.000 ---- 0.00 G

79 L 0.000 0.000 0.000 ---- 0.00 N

80 L 0.000 0.000 0.000 ---- 0.00 A

81 L 0.000 0.000 0.000 ---- 0.00 I

82 H 0.000 0.000 0.000 ---- 0.00 D

83 H 0.000 0.000 0.000 ---- 0.00 L

84 H 0.000 0.000 0.000 ---- 0.00 K

85 H 0.000 0.000 0.000 ---- 0.00 S

86 H 0.000 0.000 0.000 ---- 0.00 H

87 H 0.000 0.000 0.000 ---- 0.00 W

88 H 0.000 0.000 0.000 ---- 0.00 A

89 L 0.000 0.000 0.000 ---- 0.00 R

90 L 0.000 0.000 0.000 ---- 0.00 H

91 L 0.000 0.000 0.000 ---- 0.00 G

92 L 0.000 0.000 0.000 ---- 0.00 T

93 L 0.000 0.000 0.000 ---- 0.00 N

94 L 0.000 0.000 0.000 ---- 0.00 K

95 L 0.000 0.000 0.000 ---- 0.00 F

96 L 0.000 0.000 0.000 ---- 0.00 V

97 L 0.000 0.000 0.000 ---- 0.00 T

98 L 0.000 0.000 0.000 ---- 0.00 I

99 L 0.000 0.000 0.000 ---- 0.00 R