

Supplementary Table S2. Dataset of molecular profiling and expression signatures

| Sample ID | Cancer type | Grade | TCGA | TP53_subtype |
|-----------|------------------------|-------|--------|--------------|
| UT_001 | Endometrioid carcinoma | G2 | 3_GS | TP53active |
| UT_002 | Endometrioid carcinoma | G3 | 2_MSI | 2_MSI |
| UT_003 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_004 | clear cell carcinoma | NA | 3_GS | TP53inactive |
| UT_005 | Endometrioid carcinoma | G2 | 2_MSI | 2_MSI |
| UT_006 | Endometrioid carcinoma | G2 | 3_GS | TP53active |
| UT_007 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_008 | Endometrioid carcinoma | G3 | 2_MSI | 2_MSI |
| UT_009 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_010 | Endometrioid carcinoma | G3 | 1_POLE | 1_POLE |
| UT_011 | Endometrioid carcinoma | G1 | 4_CIN | TP53active |
| UT_012 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_013 | high grade carcinoma | NA | 4_CIN | TP53inactive |
| UT_014 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_015 | Endometrioid carcinoma | G3 | 2_MSI | 2_MSI |
| UT_016 | Endometrioid carcinoma | G3 | 2_MSI | 2_MSI |
| UT_017 | Endometrioid carcinoma | G2 | 2_MSI | 2_MSI |
| UT_018 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_019 | Endometrioid carcinoma | G2 | 3_GS | TP53active |
| UT_020 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_021 | clear+EM | NA | 3_GS | TP53inactive |
| UT_022 | Endometrioid carcinoma | G1 | 1_POLE | 1_POLE |
| UT_023 | serous carcinoma | NA | 3_GS | TP53inactive |
| UT_024 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_025 | Endometrioid carcinoma | G3 | 4_CIN | TP53inactive |
| UT_026 | Endometrioid carcinoma | G1 | 1_POLE | 1_POLE |
| UT_027 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_028 | Endometrioid carcinoma | G1 | 2_MSI | 2_MSI |
| UT_029 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_030 | Endometrioid carcinoma | G1 | 2_MSI | 2_MSI |
| UT_031 | Endometrioid carcinoma | G1 | 4_CIN | TP53inactive |
| UT_032 | Endometrioid carcinoma | G3 | 2_MSI | 2_MSI |
| UT_033 | Endometrioid carcinoma | G1 | 4_CIN | TP53active |
| UT_034 | Endometrioid carcinoma | G3 | 2_MSI | 2_MSI |
| UT_035 | clear cell carcinoma | NA | 1_POLE | 1_POLE |
| UT_036 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_037 | serous carcinoma | NA | 2_MSI | 2_MSI |
| UT_038 | Endometrioid carcinoma | G1 | 1_POLE | 1_POLE |
| UT_039 | clear cell carcinoma | NA | 2_MSI | 2_MSI |
| UT_040 | Endometrioid carcinoma | G1 | 4_CIN | TP53active |
| UT_041 | Endometrioid carcinoma | G1 | 2_MSI | 2_MSI |
| UT_042 | Endometrioid carcinoma | G2 | 4_CIN | TP53inactive |
| UT_043 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_044 | Endometrioid carcinoma | G2 | 3_GS | TP53active |
| UT_045 | clear+EM | NA | 3_GS | TP53inactive |
| UT_046 | Endometrioid carcinoma | G3 | 4_CIN | TP53inactive |
| UT_047 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_048 | Endometrioid carcinoma | G1 | 4_CIN | TP53active |

| | | | | |
|--------|------------------------|----|--------|--------------|
| UT_049 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_050 | serous carcinoma | NA | 4_CIN | TP53inactive |
| UT_051 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_052 | Endometrioid carcinoma | G1 | 1_POLE | 1_POLE |
| UT_053 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_054 | serous carcinoma | NA | 4_CIN | TP53inactive |
| UT_055 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_056 | Endometrioid carcinoma | G1 | 1_POLE | 1_POLE |
| UT_057 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_058 | Endometrioid carcinoma | G2 | 3_GS | TP53active |
| UT_059 | Endometrioid carcinoma | G2 | 2_MSI | 2_MSI |
| UT_060 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_061 | Endometrioid carcinoma | G2 | 3_GS | TP53active |
| UT_062 | serous carcinoma | NA | 4_CIN | TP53inactive |
| UT_063 | Endometrioid carcinoma | G1 | 2_MSI | 2_MSI |
| UT_064 | Endometrioid carcinoma | G2 | 2_MSI | 2_MSI |
| UT_065 | Endometrioid carcinoma | G3 | 4_CIN | TP53inactive |
| UT_066 | Endometrioid carcinoma | G1 | 1_POLE | 1_POLE |
| UT_067 | LCNEC | NA | 2_MSI | 2_MSI |
| UT_068 | serous carcinoma | NA | 2_MSI | 2_MSI |
| UT_069 | Endometrioid carcinoma | G3 | 2_MSI | 2_MSI |
| UT_070 | Endometrioid carcinoma | G3 | 2_MSI | 2_MSI |
| UT_071 | Endometrioid carcinoma | G1 | 1_POLE | 1_POLE |
| UT_072 | Endometrioid carcinoma | G1 | 4_CIN | TP53active |
| UT_073 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_074 | Endometrioid carcinoma | G3 | 2_MSI | 2_MSI |
| UT_075 | Endometrioid carcinoma | G2 | 2_MSI | 2_MSI |
| UT_076 | Endometrioid carcinoma | G3 | 3_GS | TP53active |
| UT_077 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_078 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_079 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_080 | Endometrioid carcinoma | G2 | 4_CIN | TP53active |
| UT_081 | Endometrioid carcinoma | G1 | 1_POLE | 1_POLE |
| UT_082 | clear cell carcinoma | NA | 1_POLE | 1_POLE |
| UT_083 | serous carcinoma | NA | 4_CIN | TP53inactive |
| UT_084 | Endometrioid carcinoma | G1 | 3_GS | TP53active |
| UT_085 | Endometrioid carcinoma | G1 | 2_MSI | 2_MSI |

used in this study

| TMB (mutation/Mb) | CNV_gain (Mb) | CNV_loss (Mb) | cnLOH (Mb) | signature POLE |
|----------------------|---------------|---------------|------------|----------------|
| 1.613 | 120.972 | 92.055 | 3.154 | NA |
| 31.550 | 19.769 | 17.906 | 31.991 | 0.000 |
| 2.253 | 201.655 | 69.731 | 70.199 | 0.000 |
| 279.667 | 0.000 | 3.066 | 84.504 | 0.000 |
| 33.250 | 0.033 | 19.927 | 88.868 | 0.000 |
| 1.996 | 0.000 | 9.469 | 81.242 | 0.000 |
| 2.306 | 245.829 | 38.236 | 0.000 | 0.087 |
| 24.193 | 0.000 | 0.158 | 89.148 | 0.000 |
| 2.094 | 389.739 | 9.528 | 25.480 | 0.120 |
| 153.070 | 11.948 | 0.292 | 0.000 | 0.941 |
| 1.913 | 646.773 | 25.535 | 0.000 | 0.000 |
| 0.181 | 0.000 | 0.000 | 0.000 | NA |
| 2.120 | 142.188 | 380.039 | 1.271 | 0.000 |
| 33.175 | 77.825 | 39.144 | 0.000 | 0.000 |
| 28.476 | 8.348 | 33.283 | 25.064 | 0.000 |
| 750.980 | 17.298 | 30.231 | 0.000 | 0.068 |
| 16.040 | 282.470 | 40.389 | 0.000 | 0.000 |
| 0.885 | 23.546 | 38.319 | 0.000 | NA |
| 2.251 | 0.000 | 0.000 | 70.634 | 0.000 |
| 2.399 | 0.788 | 0.000 | 137.996 | 0.072 |
| 2.179 | 344.736 | 86.218 | 0.000 | 0.000 |
| 77.534 | 0.000 | 0.000 | 0.000 | 0.789 |
| 0.149 | 0.000 | 4.164 | 0.000 | NA |
| 2.037 | 8.991 | 19.127 | 79.807 | 0.000 |
| 2.581 | 216.248 | 642.599 | 0.619 | 0.071 |
| 48.577 | 3.500 | 0.000 | 0.000 | 0.666 |
| 0.601 | 46.473 | 54.240 | 0.000 | NA |
| 24.041 | 78.216 | 4.897 | 0.000 | 0.000 |
| 2.365 | 64.575 | 177.982 | 164.343 | 0.071 |
| 26.179 | 86.210 | 16.269 | 0.000 | 0.000 |
| 9.131 | 420.282 | 124.567 | 0.000 | 0.000 |
| 394.444 | 316.893 | 216.874 | 0.000 | 0.065 |
| 2.356 | 238.316 | 178.663 | 180.527 | 0.092 |
| 45.310 | 156.455 | 289.003 | 29.061 | 0.000 |
| 437.031 | 146.790 | 187.316 | 0.000 | 0.816 |
| 1.240 | 122.473 | 3.841 | 0.000 | NA |
| 12.091 | 203.524 | 497.403 | 1.211 | 0.000 |
| 432.707 | 88.827 | 99.688 | 0.000 | 0.925 |
| 24.609 | 13.686 | 198.919 | 0.000 | 0.000 |
| 1.654 | 906.610 | 17.154 | 16.990 | 0.126 |
| 23.675 | 502.602 | 14.425 | 0.000 | 0.000 |
| 1.730 | 30.207 | 404.438 | 60.028 | 0.000 |
| 2.771 | 186.064 | 0.239 | 2.051 | 0.000 |
| 2.859 | 297.670 | 130.523 | 62.937 | 0.000 |
| 1.219 | 0.000 | 0.000 | 55.792 | NA |
| 1.692 | 404.941 | 405.439 | 63.381 | 0.000 |
| 2.125 | 137.316 | 234.793 | 4.604 | 0.093 |
| 0.883 | 519.919 | 319.537 | 4.883 | NA |

| | | | | | |
|---------|---------|---------|---------|----|-------|
| 0.239 | 0.000 | 56.775 | 0.000 | NA | |
| 1.810 | 352.201 | 307.073 | 163.043 | | 0.000 |
| 0.355 | 90.769 | 167.404 | 0.000 | NA | |
| 55.139 | 707.668 | 172.001 | 1.816 | | 0.800 |
| 1.965 | 37.664 | 110.296 | 0.219 | | 0.189 |
| 4.525 | 290.651 | 423.412 | 95.102 | | 0.213 |
| 0.968 | 175.477 | 112.124 | 8.457 | NA | |
| 282.641 | 754.755 | 21.777 | 4.052 | | 0.940 |
| 2.519 | 0.000 | 62.897 | 0.000 | | 0.181 |
| 2.793 | 115.817 | 115.914 | 3.591 | | 0.000 |
| 21.872 | 0.000 | 97.740 | 57.879 | | 0.000 |
| 2.940 | 0.799 | 179.491 | 106.830 | | 0.000 |
| 2.528 | 37.850 | 120.112 | 0.783 | | 0.000 |
| 1.400 | 55.669 | 260.896 | 315.754 | NA | |
| 22.012 | 112.538 | 26.499 | 2.669 | | 0.000 |
| 48.453 | 162.934 | 178.746 | 81.916 | | 0.000 |
| 2.729 | 521.483 | 165.383 | 24.978 | | 0.000 |
| 53.743 | 0.000 | 6.913 | 0.000 | | 0.851 |
| 44.070 | 59.439 | 25.211 | 0.000 | | 0.000 |
| 6.501 | 571.765 | 305.076 | 268.706 | | 0.000 |
| 36.189 | 94.899 | 69.568 | 34.295 | | 0.000 |
| 76.495 | 0.000 | 10.635 | 103.973 | | 0.000 |
| 82.828 | 0.000 | 63.212 | 0.000 | | 0.840 |
| 1.329 | 292.827 | 418.283 | 20.836 | NA | |
| 2.052 | 386.702 | 2.615 | 11.267 | | 0.000 |
| 425.627 | 10.411 | 62.191 | 0.081 | | 0.148 |
| 23.936 | 5.982 | 0.000 | 31.715 | | 0.000 |
| 40.317 | 13.473 | 2.558 | 79.049 | | 0.000 |
| 2.534 | 212.666 | 45.907 | 0.000 | | 0.000 |
| 1.820 | 0.000 | 0.000 | 0.000 | | 0.106 |
| 1.787 | 0.000 | 1.429 | 0.000 | | 0.118 |
| 2.361 | 76.551 | 731.531 | 179.665 | | 0.000 |
| 89.953 | 85.258 | 136.071 | 7.653 | | 0.739 |
| 142.455 | 0.000 | 0.000 | 0.000 | | 0.630 |
| 1.646 | 130.219 | 642.101 | 50.456 | | 0.000 |
| 1.818 | 99.308 | 126.921 | 4.006 | | 0.137 |
| 2.603 | 240.347 | 99.208 | 84.358 | | 0.000 |

| signature MSI | signature Deamination | TP53 inactivation score | T cell-inflamed GEP signature | PI3K/mTOR CMAP UP signature |
|---------------|-----------------------|-------------------------|-------------------------------|-----------------------------|
| NA | NA | -1.277 | 0.440 | 1.306160817 |
| 0.426 | 0.465 | -0.855 | 3.192 | 1.300984608 |
| 0.255 | 0.305 | -0.104 | -0.255 | 1.331128863 |
| 0.659 | 0.072 | 0.010 | 2.040 | 1.432908255 |
| 0.393 | 0.577 | 0.013 | 0.734 | 1.272539457 |
| 0.000 | 0.433 | -0.514 | 0.032 | 1.390595649 |
| 0.166 | 0.287 | -0.059 | -0.302 | 1.329520125 |
| 0.369 | 0.321 | -0.304 | -0.957 | 1.258669757 |
| 0.000 | 0.295 | -1.123 | -1.056 | 1.258271979 |
| 0.000 | 0.000 | -0.069 | 0.703 | 1.608547419 |
| 0.335 | 0.452 | -0.236 | -0.426 | 1.253439693 |
| NA | NA | -1.522 | 1.099 | 1.261667437 |
| 0.279 | 0.000 | 0.339 | -0.954 | 1.414843925 |
| 0.440 | 0.488 | -0.228 | 1.117 | 1.224598122 |
| 0.664 | 0.109 | -0.064 | 0.551 | 1.277464071 |
| 0.574 | 0.144 | -0.123 | 2.342 | 1.547774438 |
| 0.503 | 0.280 | -1.320 | 1.168 | 1.079582209 |
| NA | NA | -2.269 | 0.507 | 1.025537602 |
| 0.253 | 0.281 | -0.697 | -0.761 | 1.344975899 |
| 0.000 | 0.366 | -0.990 | 0.947 | 1.144743723 |
| 0.000 | 0.241 | 0.435 | -0.204 | 1.483810433 |
| 0.000 | 0.000 | 0.831 | -1.358 | 1.220858652 |
| NA | NA | 0.669 | 0.567 | 1.482051719 |
| 0.282 | 0.407 | -0.266 | 0.032 | 1.259088332 |
| 0.161 | 0.203 | -0.211 | -0.594 | 1.543103223 |
| 0.128 | 0.081 | 0.485 | 1.623 | 1.419625782 |
| NA | NA | -2.702 | -0.058 | 1.177077226 |
| 0.372 | 0.581 | -0.157 | 0.981 | 1.556903016 |
| 0.104 | 0.343 | -1.678 | 0.223 | 1.349440819 |
| 0.457 | 0.514 | -0.317 | 1.352 | 1.299287108 |
| 0.071 | 0.000 | 0.985 | -0.376 | 1.484044326 |
| 0.700 | 0.167 | 0.689 | 0.123 | 1.976296172 |
| 0.380 | 0.271 | -1.993 | -0.444 | 1.209022795 |
| 0.350 | 0.547 | 0.765 | 1.802 | 1.718701363 |
| 0.000 | 0.082 | 0.166 | 0.006 | 1.657458525 |
| NA | NA | -2.095 | -1.596 | 1.064180671 |
| 0.000 | 0.000 | 0.636 | 0.382 | 1.594260782 |
| 0.000 | 0.067 | 0.318 | 1.910 | 1.223726373 |
| 0.519 | 0.402 | -0.036 | 4.424 | 1.486817255 |
| 0.224 | 0.181 | -1.172 | 0.635 | 1.348935781 |
| 0.613 | 0.305 | -0.190 | 0.948 | 1.417271237 |
| 0.196 | 0.104 | 0.707 | -0.733 | 1.736129004 |
| 0.276 | 0.251 | 0.016 | -0.741 | 1.482883162 |
| 0.289 | 0.188 | -0.954 | -0.103 | 1.388680519 |
| NA | NA | 0.690 | -0.285 | 1.829674008 |
| 0.109 | 0.199 | 1.644 | 0.024 | 1.655103493 |
| 0.209 | 0.313 | -0.480 | -0.740 | 1.501932152 |
| NA | NA | -2.142 | -0.730 | 1.137882069 |

| | | | | | |
|----|-------|-------|--------|--------|-------------|
| NA | NA | | -1.258 | 0.373 | 1.276645971 |
| | 0.079 | 0.223 | 1.334 | -0.279 | 1.664075906 |
| NA | NA | | -0.224 | 2.183 | 1.406281079 |
| | 0.106 | 0.086 | 0.050 | 0.301 | 1.646519791 |
| | 0.279 | 0.285 | -2.099 | 0.401 | 1.376245405 |
| | 0.000 | 0.108 | 0.396 | -1.287 | 1.545720483 |
| NA | NA | | -0.390 | -0.399 | 1.297403032 |
| | 0.000 | 0.060 | 0.027 | 2.292 | 1.72610845 |
| | 0.243 | 0.317 | -0.194 | 0.287 | 1.283040754 |
| | 0.306 | 0.269 | -1.639 | -1.147 | 1.324554169 |
| | 0.606 | 0.120 | -0.010 | 1.801 | 1.528876435 |
| | 0.186 | 0.331 | -0.414 | 0.066 | 1.459181658 |
| | 0.199 | 0.221 | -0.827 | -0.644 | 1.2761725 |
| NA | NA | | -0.283 | -0.371 | 1.563212978 |
| | 0.564 | 0.191 | -0.144 | 1.025 | 1.387734109 |
| | 0.582 | 0.000 | -0.072 | 1.474 | 1.556562146 |
| | 0.239 | 0.311 | 0.083 | 0.897 | 1.619147237 |
| | 0.000 | 0.076 | -0.350 | 1.553 | 1.477197174 |
| | 0.619 | 0.125 | 0.772 | -1.228 | 1.500977853 |
| | 0.000 | 0.121 | -0.436 | -1.081 | 1.518990105 |
| | 0.657 | 0.236 | -0.090 | 2.132 | 1.615823251 |
| | 0.587 | 0.299 | -0.964 | 1.474 | 1.366706559 |
| | 0.000 | 0.000 | -0.928 | 1.983 | 1.458167726 |
| NA | NA | | -0.795 | -1.277 | 1.209483947 |
| | 0.259 | 0.264 | -0.232 | 1.126 | 1.428571022 |
| | 0.624 | 0.100 | 0.472 | 2.285 | 1.875965268 |
| | 0.750 | 0.000 | 0.048 | 0.929 | 1.49330611 |
| | 0.361 | 0.568 | -0.215 | 2.817 | 1.701187704 |
| | 0.438 | 0.110 | -0.838 | -0.630 | 1.115359361 |
| | 0.375 | 0.299 | -1.717 | 0.287 | 0.973167516 |
| | 0.244 | 0.328 | -1.056 | 0.082 | 1.398393559 |
| | 0.295 | 0.357 | 0.048 | -0.322 | 1.598797571 |
| | 0.139 | 0.000 | 1.073 | 1.363 | 1.68475396 |
| | 0.216 | 0.000 | 0.943 | 1.991 | 1.942547353 |
| | 0.110 | 0.301 | 0.138 | -1.722 | 1.514573415 |
| | 0.199 | 0.249 | -1.201 | -1.108 | 1.446839488 |
| | 0.294 | 0.303 | -0.289 | 0.514 | 1.477317504 |

| EMT-up signature | Autophagy-up signature |
|------------------|------------------------|
| -0.878233398 | 0.417974297 |
| -0.335429205 | 0.822318978 |
| -0.528495282 | 0.93978585 |
| -1.318786213 | 1.083134956 |
| -1.14600145 | 0.684179999 |
| -1.945543944 | 0.709311365 |
| -1.627149192 | 0.929494718 |
| -1.847021774 | 0.675050659 |
| -0.448393323 | 0.632729621 |
| -0.405816516 | 0.758363704 |
| -1.485554897 | 0.972545724 |
| 0.185627894 | 1.042708829 |
| -1.937580246 | 1.637232373 |
| -1.298365142 | 0.587493296 |
| -1.551015376 | 1.22636543 |
| -1.765335958 | 0.587586015 |
| -1.386831315 | 0.152716155 |
| 0.561245916 | 0.419145766 |
| -0.560185137 | 0.652684823 |
| -0.880506463 | 0.740472621 |
| -0.869061317 | 0.968236483 |
| -1.337731085 | 0.769781084 |
| -0.890234189 | 1.322834473 |
| -1.170131851 | 0.667892761 |
| -0.719690204 | 1.189189736 |
| -0.655968392 | 0.564647693 |
| 0.170400372 | 0.075422187 |
| -0.636862971 | 0.698056433 |
| -1.012290631 | 0.840808944 |
| -1.219940534 | 0.518641918 |
| -1.287555934 | 0.323204733 |
| -1.613470028 | 1.219001266 |
| -1.458707856 | 0.721323694 |
| -1.269797837 | 1.412550398 |
| -0.27320696 | 1.372479256 |
| -0.021558696 | 0.132422661 |
| -0.868376203 | 1.171708208 |
| -1.022020542 | 0.512568659 |
| -0.683188396 | 1.081981746 |
| -0.560902292 | 0.997215026 |
| -0.879409568 | 0.643299072 |
| -1.313467636 | 0.951401008 |
| -0.896882021 | 0.860395959 |
| -0.883841245 | 0.863929152 |
| -0.802493497 | 1.72895862 |
| -0.786116458 | 1.032219338 |
| -1.315699103 | 1.013434969 |
| -0.131797943 | 0.142191151 |

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|--------------|--------------|
| 0.237199929 | 0.577903016 |
| -0.51080593 | 1.296585125 |
| -0.751483438 | 0.575881104 |
| -1.386917614 | 0.756695826 |
| 0.131193863 | 0.483489432 |
| -1.748631346 | 0.878968225 |
| -0.278986756 | 0.323865443 |
| -0.901835846 | 0.572660741 |
| -1.026875549 | 0.643979528 |
| -1.43526807 | 0.534810089 |
| -0.970745408 | 0.303754324 |
| -0.352422142 | 0.665384154 |
| -1.224403846 | 0.548977996 |
| 0.662656659 | 1.106520902 |
| -1.848865071 | 0.687387534 |
| -1.575651527 | 0.940006097 |
| -0.105711534 | 0.496858175 |
| -0.434512416 | 1.09858226 |
| -1.236206108 | 0.632966106 |
| -0.531851943 | 0.388779156 |
| -0.45011357 | 0.79548402 |
| -0.330918872 | 1.484197408 |
| -0.897546391 | 0.689946434 |
| -0.917286751 | 0.313097769 |
| -0.629531609 | 0.742458316 |
| -2.073350354 | 1.150165111 |
| -0.042385589 | 0.761584442 |
| 0.341905462 | 0.80575817 |
| -0.003470143 | -0.014222142 |
| -0.912312202 | 0.567812722 |
| -0.955164064 | 0.465448196 |
| -1.067905339 | 0.509496984 |
| -1.34323966 | 0.840970999 |
| -0.278475409 | 0.998404737 |
| -0.447547692 | 0.841508046 |
| -1.851888086 | 0.556310484 |
| -1.502588641 | 0.961221461 |