**Supplementary Table 3. SsGSEA results and immune microenvironment scores calculated based on immune files from the TCGA and GSEA databases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sample ID** | **Immune group** | **Stromal score** | **Immune score** | **ESTIMATE score** | **Tumor purity** |
| TCGA-DD-AACZ-01A-11R-A41C-07 | Immunity\_H | -449.581 | 2057.853 | 1608.272 | 0.666671 |
| TCGA-CC-5264-01A-01R-A131-07 | Immunity\_H | -992.398 | 82.68512 | -909.713 | 0.89091 |
| TCGA-DD-AAW3-01A-11R-A41C-07 | Immunity\_L | -916.884 | -302.301 | -1219.18 | 0.910616 |
| TCGA-ED-A82E-01A-11R-A352-07 | Immunity\_H | -389.482 | 269.4677 | -120.014 | 0.832401 |
| TCGA-DD-AA3A-01A-11R-A37K-07 | Immunity\_L | -1464.45 | -28.2263 | -1492.67 | 0.926468 |
| TCGA-G3-A5SI-01A-31R-A27V-07 | Immunity\_L | -1042.96 | -481.116 | -1524.08 | 0.928193 |
| TCGA-DD-AAVX-01A-11R-A41C-07 | Immunity\_H | -481.201 | 978.0979 | 496.897 | 0.778875 |
| TCGA-2Y-A9HA-01A-11R-A39D-07 | Immunity\_L | -1002.41 | -34.4823 | -1036.89 | 0.899233 |
| TCGA-EP-A12J-01A-11R-A131-07 | Immunity\_L | -853.535 | 54.08707 | -799.448 | 0.883442 |
| TCGA-DD-AAD2-01A-11R-A41C-07 | Immunity\_H | 279.2252 | 1019.556 | 1298.781 | 0.699833 |
| TCGA-GJ-A3OU-01A-31R-A38B-07 | Immunity\_H | 925.0539 | 2610.54 | 3535.594 | 0.432104 |
| TCGA-DD-AAEH-01A-11R-A41C-07 | Immunity\_H | -187.803 | 1486.344 | 1298.541 | 0.699858 |
| TCGA-DD-AACQ-01A-11R-A41C-07 | Immunity\_L | -1477.56 | -532.04 | -2009.6 | 0.952333 |
| TCGA-2Y-A9GW-01A-11R-A38B-07 | Immunity\_H | 32.85979 | 1487.878 | 1520.738 | 0.676193 |
| TCGA-G3-A7M9-01A-23R-A352-07 | Immunity\_L | -1351.16 | -336.592 | -1687.75 | 0.936864 |
| TCGA-DD-AACB-01A-11R-A41C-07 | Immunity\_H | -680.741 | 1433.362 | 752.6207 | 0.754789 |
| TCGA-G3-A3CG-01A-11R-A213-07 | Immunity\_H | -420.833 | 462.0498 | 41.21727 | 0.819053 |
| TCGA-MI-A75H-01A-11R-A32O-07 | Immunity\_L | -529.733 | 1061.121 | 531.3881 | 0.77569 |
| TCGA-DD-AAEI-01A-11R-A41C-07 | Immunity\_H | -641.648 | 754.1842 | 112.5364 | 0.813002 |
| TCGA-G3-A25Z-01A-11R-A16W-07 | Immunity\_L | -463.486 | 453.6376 | -9.84835 | 0.823331 |
| TCGA-ED-A66Y-01A-11R-A311-07 | Immunity\_L | -1223.73 | -823.557 | -2047.29 | 0.954006 |
| TCGA-MI-A75G-01A-11R-A32O-07 | Immunity\_L | -1088.23 | -274.031 | -1362.26 | 0.919093 |
| TCGA-BC-A10W-01A-11R-A131-07 | Immunity\_H | -622.098 | 488.7362 | -133.362 | 0.833485 |
| TCGA-EP-A3JL-01A-11R-A213-07 | Immunity\_H | 1.250757 | 1360.955 | 1362.206 | 0.693152 |
| TCGA-DD-AAEG-01A-11R-A39D-07 | Immunity\_L | -998.087 | -219.42 | -1217.51 | 0.910514 |
| TCGA-EP-A3RK-01A-11R-A22L-07 | Immunity\_H | -99.5973 | 1774.389 | 1674.792 | 0.659361 |
| TCGA-UB-A7MA-01A-11R-A33R-07 | Immunity\_L | -819.093 | -16.9756 | -836.068 | 0.885948 |
| TCGA-XR-A8TG-01A-11R-A36F-07 | Immunity\_H | -483.401 | 299.1962 | -184.205 | 0.837585 |
| TCGA-BC-A10X-01A-11R-A131-07 | Immunity\_H | 357.0137 | 870.5171 | 1227.531 | 0.707265 |
| TCGA-UB-A7MC-01A-11R-A33R-07 | Immunity\_L | -1327.81 | -468.168 | -1795.98 | 0.942301 |
| TCGA-DD-A39V-01A-11R-A213-07 | Immunity\_L | -389.295 | 1389.999 | 1000.704 | 0.730407 |
| TCGA-DD-AACO-01A-11R-A41C-07 | Immunity\_L | -480.065 | 935.0023 | 454.9374 | 0.782723 |
| TCGA-DD-AACF-01A-11R-A41C-07 | Immunity\_H | -988.157 | 712.9044 | -275.253 | 0.844812 |
| TCGA-KR-A7K2-01A-12R-A33R-07 | Immunity\_L | -379.953 | 604.1275 | 224.1748 | 0.803352 |
| TCGA-RC-A6M3-01A-11R-A32O-07 | Immunity\_L | -1393.38 | 261.6529 | -1131.73 | 0.905236 |
| TCGA-DD-AADF-01A-11R-A41C-07 | Immunity\_L | -1152.74 | 313.1818 | -839.561 | 0.886186 |
| TCGA-G3-AAV0-01A-11R-A37K-07 | Immunity\_L | -816.413 | 247.9202 | -568.493 | 0.867053 |
| TCGA-ZS-A9CF-02A-11R-A38B-07 | Immunity\_L | -864.214 | 148.2619 | -715.952 | 0.877633 |
| TCGA-UB-A7MB-01A-11R-A33R-07 | Immunity\_L | -1250.65 | -458.507 | -1709.15 | 0.937958 |
| TCGA-DD-AADY-01A-11R-A41C-07 | Immunity\_L | -662.031 | -388.568 | -1050.6 | 0.900111 |
| TCGA-T1-A6J8-01A-11R-A32O-07 | Immunity\_L | -510.192 | 209.2138 | -300.978 | 0.846826 |
| TCGA-BC-4072-01B-11R-A155-07 | Immunity\_H | -328.382 | 1390.231 | 1061.849 | 0.724247 |
| TCGA-G3-A5SL-01A-11R-A27V-07 | Immunity\_L | -665.528 | -41.9445 | -707.473 | 0.877036 |
| TCGA-ZP-A9D4-01A-11R-A37K-07 | Immunity\_L | -963.81 | -208.533 | -1172.34 | 0.907753 |
| TCGA-DD-A3A3-01A-11R-A22L-07 | Immunity\_L | -1358.33 | 299.4537 | -1058.88 | 0.90064 |
| TCGA-DD-A1EF-01A-11R-A131-07 | Immunity\_H | -644.071 | 614.0772 | -29.9941 | 0.825005 |
| TCGA-DD-A4NG-01A-11R-A27V-07 | Immunity\_L | -839.335 | 482.6824 | -356.653 | 0.851144 |
| TCGA-ED-A8O5-01A-11R-A36F-07 | Immunity\_L | -709.619 | -178.753 | -888.372 | 0.889483 |
| TCGA-ED-A627-01A-12R-A311-07 | Immunity\_H | 734.8166 | 1923.451 | 2658.267 | 0.544344 |
| TCGA-G3-AAV6-01A-21R-A37K-07 | Immunity\_L | -1079.59 | -314.765 | -1394.35 | 0.920939 |
| TCGA-CC-A9FV-01A-11R-A37K-07 | Immunity\_H | 1079.439 | 2257.582 | 3337.022 | 0.458204 |
| TCGA-DD-AADN-01A-11R-A41C-07 | Immunity\_L | -1103.8 | 2010.582 | 906.785 | 0.739753 |
| TCGA-QA-A7B7-01A-11R-A32O-07 | Immunity\_L | -1327.08 | -36.6027 | -1363.69 | 0.919176 |
| TCGA-5C-A9VH-01A-11R-A37K-07 | Immunity\_L | -296.797 | 76.23914 | -220.557 | 0.840489 |
| TCGA-YA-A8S7-01A-11R-A37K-07 | Immunity\_H | 136.7208 | 1793.695 | 1930.416 | 0.630693 |
| TCGA-2Y-A9H4-01A-11R-A38B-07 | Immunity\_L | -779.011 | 585.8781 | -193.133 | 0.838301 |
| TCGA-DD-AAVY-01A-11R-A41C-07 | Immunity\_L | -1164.22 | -280.528 | -1444.75 | 0.923797 |
| TCGA-XR-A8TD-01A-12R-A39D-07 | Immunity\_H | 401.2969 | 1913.655 | 2314.952 | 0.585909 |
| TCGA-DD-A39X-01A-11R-A213-07 | Immunity\_H | -436.833 | 571.272 | 134.4393 | 0.811126 |
| TCGA-DD-AACG-01A-11R-A41C-07 | Immunity\_L | -1197.81 | 783.8553 | -413.952 | 0.855529 |
| TCGA-DD-A4NN-01A-11R-A28V-07 | Immunity\_L | -839.888 | -400.387 | -1240.28 | 0.911891 |
| TCGA-K7-A6G5-01A-11R-A311-07 | Immunity\_H | -355.707 | 861.5631 | 505.8557 | 0.77805 |
| TCGA-MI-A75C-01A-11R-A32O-07 | Immunity\_L | -1437.68 | 632.1407 | -805.539 | 0.883861 |
| TCGA-G3-A25S-01A-11R-A16W-07 | Immunity\_L | -1022.57 | 659.2328 | -363.339 | 0.851659 |
| TCGA-DD-AAE3-01A-11R-A41C-07 | Immunity\_L | -191.232 | 423.7321 | 232.4998 | 0.802624 |
| TCGA-ED-A7PY-01A-11R-A33R-07 | Immunity\_L | -1312.62 | -233.811 | -1546.43 | 0.929409 |
| TCGA-G3-AAV4-01A-11R-A38B-07 | Immunity\_L | -922.353 | -88.2295 | -1010.58 | 0.897537 |
| TCGA-DD-AADI-01A-11R-A41C-07 | Immunity\_H | -177.249 | 1587.159 | 1409.91 | 0.688088 |
| TCGA-FV-A3R3-01A-11R-A22L-07 | Immunity\_H | 428.4665 | 822.8799 | 1251.346 | 0.704789 |
| TCGA-CC-5261-01A-01R-A131-07 | Immunity\_H | 69.8345 | 1125.863 | 1195.698 | 0.710561 |
| TCGA-BW-A5NO-01A-11R-A27V-07 | Immunity\_L | -685.723 | 531.074 | -154.649 | 0.835207 |
| TCGA-DD-A4NB-01A-12R-A266-07 | Immunity\_H | 1006.761 | 893.853 | 1900.614 | 0.634082 |
| TCGA-CC-A3MC-01A-11R-A22L-07 | Immunity\_H | -545.462 | 343.4599 | -202.002 | 0.83901 |
| TCGA-CC-A3M9-01A-11R-A213-07 | Immunity\_H | 889.401 | 2833.527 | 3722.928 | 0.407145 |
| TCGA-DD-A3A5-01A-11R-A22L-07 | Immunity\_L | -652.856 | 127.7541 | -525.101 | 0.863863 |
| TCGA-FV-A3I1-01A-11R-A22L-07 | Immunity\_H | -341.786 | 894.0664 | 552.2807 | 0.773751 |
| TCGA-CC-5260-01A-01R-A131-07 | Immunity\_H | 56.84604 | 699.3841 | 756.2302 | 0.754442 |
| TCGA-K7-A5RF-01A-11R-A28V-07 | Immunity\_H | 299.7977 | 1357.09 | 1656.887 | 0.661335 |
| TCGA-BC-A10S-01A-22R-A131-07 | Immunity\_H | 37.27716 | 1167.347 | 1204.624 | 0.709638 |
| TCGA-EP-A26S-01A-11R-A16W-07 | Immunity\_L | -896.75 | -289.61 | -1186.36 | 0.908614 |
| TCGA-DD-AACW-01A-11R-A41C-07 | Immunity\_L | -1105.05 | 178.6623 | -926.39 | 0.892019 |
| TCGA-DD-AAE7-01A-11R-A41C-07 | Immunity\_H | -221.023 | 888.652 | 667.6293 | 0.762914 |
| TCGA-DD-AAE0-01A-11R-A41C-07 | Immunity\_L | -656.286 | 67.73899 | -588.547 | 0.868516 |
| TCGA-BD-A2L6-01A-11R-A213-07 | Immunity\_L | -680.77 | 419.8323 | -260.938 | 0.843685 |
| TCGA-FV-A496-01A-11R-A266-07 | Immunity\_L | -1302.62 | -557.39 | -1860.01 | 0.945406 |
| TCGA-RC-A7S9-01A-11R-A33R-07 | Immunity\_L | -1177.5 | 546.7834 | -630.716 | 0.871568 |
| TCGA-DD-AAE1-01A-11R-A41C-07 | Immunity\_L | -1133.6 | 349.5315 | -784.067 | 0.882382 |
| TCGA-FV-A2QQ-01A-11R-A22L-07 | Immunity\_H | -449.096 | 876.18 | 427.0836 | 0.785261 |
| TCGA-CC-A5UC-01A-11R-A28V-07 | Immunity\_H | -263.718 | 412.5811 | 148.8635 | 0.809886 |
| TCGA-DD-A3A6-01A-11R-A22L-07 | Immunity\_L | 679.1427 | 1306.978 | 1986.121 | 0.624327 |
| TCGA-DD-AAEB-01A-11R-A41C-07 | Immunity\_L | -766.297 | 400.3097 | -365.987 | 0.851863 |
| TCGA-BC-A3KF-01A-11R-A213-07 | Immunity\_L | -827.787 | -77.8315 | -905.619 | 0.890637 |
| TCGA-DD-A115-01A-11R-A131-07 | Immunity\_H | -333.94 | 467.2478 | 133.3076 | 0.811223 |
| TCGA-2Y-A9H3-01A-11R-A38B-07 | Immunity\_H | -156.446 | 1790.491 | 1634.045 | 0.663846 |
| TCGA-G3-AAUZ-01A-11R-A38B-07 | Immunity\_H | -374.777 | 1046.63 | 671.853 | 0.762513 |
| TCGA-BC-A217-01A-11R-A155-07 | Immunity\_L | -1113.59 | 705.9782 | -407.616 | 0.855048 |
| TCGA-DD-AADG-01A-11R-A41C-07 | Immunity\_L | -1047.73 | -395.835 | -1443.56 | 0.92373 |
| TCGA-ZS-A9CG-01A-11R-A37K-07 | Immunity\_L | -727.744 | 109.7798 | -617.964 | 0.870648 |
| TCGA-DD-A1EG-01A-11R-A213-07 | Immunity\_H | -15.5715 | 1393.334 | 1377.762 | 0.691504 |
| TCGA-DD-AACH-01A-11R-A41C-07 | Immunity\_H | -749.611 | 365.4137 | -384.197 | 0.85326 |
| TCGA-CC-A8HT-01A-11R-A36F-07 | Immunity\_H | -1053.38 | 824.831 | -228.547 | 0.841124 |
| TCGA-2Y-A9H2-01A-12R-A38B-07 | Immunity\_H | -983.096 | 589.4897 | -393.606 | 0.853979 |
| TCGA-G3-A25U-01A-11R-A16W-07 | Immunity\_L | -1080.74 | -210.495 | -1291.23 | 0.914935 |
| TCGA-DD-A73B-01A-12R-A32O-07 | Immunity\_L | -1148.02 | -347.355 | -1495.38 | 0.926617 |
| TCGA-MR-A520-01A-11R-A266-07 | Immunity\_L | -739.751 | 217.6285 | -522.122 | 0.863642 |
| TCGA-2Y-A9H6-01A-11R-A39D-07 | Immunity\_H | -22.4783 | 1079.278 | 1056.8 | 0.724758 |
| TCGA-DD-A1EA-01A-11R-A131-07 | Immunity\_L | -901.227 | 721.6426 | -179.584 | 0.837215 |
| TCGA-3K-AAZ8-01A-12R-A39D-07 | Immunity\_L | -1024 | 444.7799 | -579.216 | 0.867837 |
| TCGA-ED-A66X-01A-11R-A311-07 | Immunity\_H | 326.1796 | 936.4772 | 1262.657 | 0.70361 |
| TCGA-DD-A4NJ-01A-11R-A27V-07 | Immunity\_H | -190.803 | 856.219 | 665.4157 | 0.763124 |
| TCGA-LG-A9QD-01A-11R-A38B-07 | Immunity\_H | -769.875 | 509.0336 | -260.841 | 0.843678 |
| TCGA-FV-A3I0-01A-11R-A22L-07 | Immunity\_H | -460.09 | 366.3987 | -93.6913 | 0.830253 |
| TCGA-2Y-A9H1-01A-11R-A38B-07 | Immunity\_L | -853.011 | 1138.137 | 285.1258 | 0.797992 |
| TCGA-CC-A7IF-01A-11R-A33J-07 | Immunity\_L | -1095.6 | -334.965 | -1430.56 | 0.922998 |
| TCGA-DD-AACI-01A-11R-A41C-07 | Immunity\_H | -155.025 | 1870.706 | 1715.681 | 0.654837 |
| TCGA-DD-AAD0-01A-11R-A41C-07 | Immunity\_L | -1419.04 | -235.822 | -1654.86 | 0.935164 |
| TCGA-DD-A114-01A-11R-A131-07 | Immunity\_H | 281.4384 | 1812.561 | 2093.999 | 0.611879 |
| TCGA-5C-AAPD-01A-21R-A39D-07 | Immunity\_H | -261.275 | 1730.571 | 1469.296 | 0.681736 |
| TCGA-FV-A3R2-01A-11R-A22L-07 | Immunity\_L | -1079.61 | 142.6949 | -936.917 | 0.892716 |
| TCGA-DD-AADC-01A-11R-A41C-07 | Immunity\_L | -1095.42 | -99.859 | -1195.28 | 0.90916 |
| TCGA-EP-A2KA-01A-11R-A180-07 | Immunity\_H | -770.978 | 1462.072 | 691.0933 | 0.760683 |
| TCGA-DD-A4NE-01A-11R-A27V-07 | Immunity\_L | -719.127 | -220.439 | -939.566 | 0.892892 |
| TCGA-2Y-A9H7-01A-11R-A39D-07 | Immunity\_L | -1174.76 | 335.0884 | -839.675 | 0.886193 |
| TCGA-WQ-AB4B-01A-11R-A41C-07 | Immunity\_L | -260.243 | 638.0469 | 377.8042 | 0.78972 |
| TCGA-DD-A39Z-01A-11R-A213-07 | Immunity\_L | -1365.24 | -192.663 | -1557.9 | 0.930029 |
| TCGA-DD-AAW1-01A-11R-A41C-07 | Immunity\_L | -927.093 | -127.434 | -1054.53 | 0.900362 |
| TCGA-DD-AADB-01A-11R-A41C-07 | Immunity\_H | -877.994 | 1230.553 | 352.5586 | 0.791988 |
| TCGA-G3-AAV1-01A-11R-A38B-07 | Immunity\_L | -769.709 | -32.0374 | -801.746 | 0.8836 |
| TCGA-ZP-A9CY-01A-11R-A38B-07 | Immunity\_H | -83.7052 | 639.0403 | 555.335 | 0.773467 |
| TCGA-DD-AADM-01A-11R-A41C-07 | Immunity\_L | -575.126 | 535.1757 | -39.9506 | 0.825831 |
| TCGA-DD-AADK-01A-11R-A41C-07 | Immunity\_H | -202.18 | 808.4494 | 606.2694 | 0.768706 |
| TCGA-5R-AA1D-01A-11R-A38B-07 | Immunity\_H | 1180.26 | 1039.202 | 2219.463 | 0.59721 |
| TCGA-FV-A495-01A-11R-A266-07 | Immunity\_H | 66.13022 | 1334.623 | 1400.753 | 0.689063 |
| TCGA-DD-AAVR-01A-11R-A41C-07 | Immunity\_H | 390.8852 | 1716.209 | 2107.094 | 0.610358 |
| TCGA-CC-A7IK-01A-12R-A33R-07 | Immunity\_L | -1300.14 | -553.25 | -1853.39 | 0.945088 |
| TCGA-DD-AAE9-01A-11R-A41C-07 | Immunity\_L | -1369.22 | 27.59223 | -1341.63 | 0.917896 |
| TCGA-DD-AAVP-01A-11R-A41C-07 | Immunity\_L | -621.256 | 112.0546 | -509.201 | 0.862685 |
| TCGA-DD-A4NP-01A-11R-A28V-07 | Immunity\_L | -715.576 | 208.5113 | -507.065 | 0.862526 |
| TCGA-DD-AAED-01A-12R-A41C-07 | Immunity\_L | -1520.69 | 182.5625 | -1338.12 | 0.917691 |
| TCGA-DD-AACA-02B-11R-A41C-07 | Immunity\_L | -1378.12 | -617.721 | -1995.84 | 0.951715 |
| TCGA-ED-A97K-01A-21R-A38B-07 | Immunity\_H | -351.876 | 541.3542 | 189.4779 | 0.806375 |
| TCGA-LG-A6GG-01A-11R-A311-07 | Immunity\_L | -1087.13 | -71.4084 | -1158.54 | 0.906901 |
| TCGA-EP-A2KB-01A-11R-A180-07 | Immunity\_L | -1120.22 | -10.4399 | -1130.66 | 0.905169 |
| TCGA-WJ-A86L-01A-12R-A39D-07 | Immunity\_L | -1359.92 | -136.199 | -1496.12 | 0.926658 |
| TCGA-DD-A3A1-01A-11R-A213-07 | Immunity\_L | -1023.86 | 914.8023 | -109.058 | 0.831508 |
| TCGA-DD-A73A-01A-12R-A32O-07 | Immunity\_L | -894.688 | 871.5611 | -23.1269 | 0.824435 |
| TCGA-G3-AAV7-01A-11R-A38B-07 | Immunity\_H | -665.42 | 834.8466 | 169.4269 | 0.808112 |
| TCGA-DD-A11D-01A-11R-A131-07 | Immunity\_L | -653.161 | 54.28381 | -598.877 | 0.869267 |
| TCGA-CC-A9FU-01A-11R-A37K-07 | Immunity\_L | -1574.65 | -73.4446 | -1648.09 | 0.934812 |
| TCGA-CC-A7II-01A-11R-A33J-07 | Immunity\_L | -764.256 | -328.885 | -1093.14 | 0.902814 |
| TCGA-KR-A7K8-01A-11R-A33J-07 | Immunity\_H | -182.549 | 1629.427 | 1446.877 | 0.68414 |
| TCGA-DD-AADL-01A-11R-A41C-07 | Immunity\_L | -1221.16 | -319.67 | -1540.83 | 0.929105 |
| TCGA-G3-A6UC-01A-21R-A33J-07 | Immunity\_L | -1162.77 | -263.132 | -1425.9 | 0.922734 |
| TCGA-DD-AAE6-01A-11R-A41C-07 | Immunity\_L | -1603.81 | -861.772 | -2465.59 | 0.970604 |
| TCGA-DD-AADS-01A-11R-A41C-07 | Immunity\_L | -698.598 | 1432.598 | 733.9994 | 0.75658 |
| TCGA-GJ-A9DB-01A-11R-A37K-07 | Immunity\_L | -213.798 | 358.6429 | 144.8447 | 0.810232 |
| TCGA-G3-A25T-01A-11R-A16W-07 | Immunity\_H | -454.822 | 357.646 | -97.1755 | 0.830538 |
| TCGA-G3-A7M6-01A-11R-A33R-07 | Immunity\_L | -650.456 | 278.0143 | -372.442 | 0.852359 |
| TCGA-DD-A73C-01A-12R-A33J-07 | Immunity\_L | -125.128 | 253.3792 | 128.2515 | 0.811657 |
| TCGA-NI-A8LF-01A-11R-A36F-07 | Immunity\_L | -380.63 | 80.98753 | -299.642 | 0.846722 |
| TCGA-BC-A5W4-01A-11R-A28V-07 | Immunity\_L | -1450.47 | -629.581 | -2080.05 | 0.955437 |
| TCGA-DD-A4NF-01A-11R-A27V-07 | Immunity\_L | -843.938 | -409.499 | -1253.44 | 0.912682 |
| TCGA-DD-AACT-01A-11R-A41C-07 | Immunity\_H | -356.164 | 966.9819 | 610.8183 | 0.768279 |
| TCGA-ED-A4XI-01A-11R-A266-07 | Immunity\_H | 192.5756 | 1156.853 | 1349.429 | 0.694503 |
| TCGA-DD-AAD1-01A-11R-A41C-07 | Immunity\_H | 266.8656 | 1366.649 | 1633.515 | 0.663905 |
| TCGA-2Y-A9HB-01A-11R-A39D-07 | Immunity\_H | -237.399 | 963.1797 | 725.7808 | 0.757368 |
| TCGA-4R-AA8I-01A-11R-A38B-07 | Immunity\_L | -735.952 | 190.8571 | -545.095 | 0.865337 |
| TCGA-FV-A23B-01A-11R-A16W-07 | Immunity\_H | -661.588 | 497.1231 | -164.464 | 0.835999 |
| TCGA-2Y-A9GV-01A-11R-A38B-07 | Immunity\_L | -120.295 | 901.7901 | 781.4948 | 0.752002 |
| TCGA-BC-A112-01A-11R-A131-07 | Immunity\_H | -283.328 | 466.3386 | 183.011 | 0.806936 |
| TCGA-ED-A459-01A-11R-A266-07 | Immunity\_H | -854.962 | 558.7397 | -296.223 | 0.846455 |
| TCGA-BC-A10Y-01A-11R-A131-07 | Immunity\_L | -830.616 | 454.6962 | -375.919 | 0.852626 |
| TCGA-DD-AACJ-01A-11R-A41C-07 | Immunity\_L | -1254.31 | -13.5851 | -1267.89 | 0.913547 |
| TCGA-GJ-A6C0-01A-12R-A311-07 | Immunity\_H | -542.935 | 1112.671 | 569.736 | 0.772125 |
| TCGA-DD-A1EJ-01A-11R-A155-07 | Immunity\_L | -1034.1 | 304.6916 | -729.407 | 0.878578 |
| TCGA-XR-A8TF-01A-11R-A36F-07 | Immunity\_L | -1093.79 | -98.3382 | -1192.13 | 0.908967 |
| TCGA-2V-A95S-01A-11R-A37K-07 | Immunity\_H | -407.477 | 2173.295 | 1765.818 | 0.649257 |
| TCGA-DD-AAW0-01A-11R-A41C-07 | Immunity\_H | -6.9787 | 1097.722 | 1090.743 | 0.721316 |
| TCGA-DD-AAC9-01A-11R-A41C-07 | Immunity\_H | 163.6089 | 1137.337 | 1300.946 | 0.699606 |
| TCGA-DD-AAC8-01A-11R-A41C-07 | Immunity\_L | -914.615 | 425.3469 | -489.268 | 0.861201 |
| TCGA-XR-A8TE-01A-11R-A36F-07 | Immunity\_L | -527.753 | 17.66269 | -510.091 | 0.862751 |
| TCGA-DD-AAVU-01A-11R-A41C-07 | Immunity\_L | -1181.3 | 25.94012 | -1155.35 | 0.906704 |
| TCGA-CC-A7IE-01A-21R-A38B-07 | Immunity\_H | -656.41 | 1255.066 | 598.6565 | 0.76942 |
| TCGA-CC-A5UD-01A-11R-A28V-07 | Immunity\_L | -1160.69 | -202.896 | -1363.58 | 0.91917 |
| TCGA-DD-A73E-01A-12R-A32O-07 | Immunity\_L | -1162.69 | -760.213 | -1922.9 | 0.948374 |
| TCGA-K7-AAU7-01A-11R-A38B-07 | Immunity\_H | -271.021 | 666.8142 | 395.7935 | 0.788097 |
| TCGA-DD-AACK-01A-11R-A41C-07 | Immunity\_L | -1057.86 | 152.477 | -905.38 | 0.890621 |
| TCGA-DD-A1EB-01A-11R-A131-07 | Immunity\_L | -577.367 | 122.2266 | -455.141 | 0.858644 |
| TCGA-KR-A7K7-01A-11R-A33J-07 | Immunity\_L | -1100.33 | 1209.631 | 109.2997 | 0.813279 |
| TCGA-CC-5258-01A-01R-A131-07 | Immunity\_H | -559.62 | 628.4768 | 68.85733 | 0.816719 |
| TCGA-BD-A3EP-01A-11R-A22L-07 | Immunity\_H | 163.7083 | 1482.001 | 1645.709 | 0.662565 |
| TCGA-CC-A7IL-01A-11R-A33R-07 | Immunity\_L | -1544.81 | -454.136 | -1998.94 | 0.951855 |
| TCGA-5R-AAAM-01A-12R-A41C-07 | Immunity\_H | 523.2681 | 1113.124 | 1636.392 | 0.663589 |
| TCGA-BC-A8YO-01A-11R-A37K-07 | Immunity\_H | -898.157 | 1213.703 | 315.5455 | 0.795293 |
| TCGA-G3-A5SK-01A-11R-A27V-07 | Immunity\_L | -295.818 | 1011.697 | 715.8787 | 0.758316 |
| TCGA-DD-A3A2-01A-11R-A213-07 | Immunity\_L | -558.85 | 182.5098 | -376.34 | 0.852658 |
| TCGA-CC-5262-01A-01R-A131-07 | Immunity\_H | 232.0584 | 1187.982 | 1420.04 | 0.687008 |
| TCGA-2Y-A9H9-01A-21R-A39D-07 | Immunity\_L | -675.659 | 342.8331 | -332.826 | 0.849303 |
| TCGA-DD-AAEK-01A-11R-A41C-07 | Immunity\_H | -171.074 | 1529.34 | 1358.266 | 0.693569 |
| TCGA-DD-AAD5-01A-11R-A41C-07 | Immunity\_H | -951.955 | 837.4232 | -114.531 | 0.831954 |
| TCGA-UB-A7MF-01A-11R-A33J-07 | Immunity\_H | -605.438 | 1820.298 | 1214.86 | 0.708579 |
| TCGA-2Y-A9GY-01A-11R-A38B-07 | Immunity\_H | -947.146 | 1759.101 | 811.9542 | 0.749048 |
| TCGA-G3-A25V-01A-11R-A16W-07 | Immunity\_H | 53.51848 | 1168.653 | 1222.172 | 0.707821 |
| TCGA-ES-A2HS-01A-11R-A180-07 | Immunity\_L | -492.395 | 10.43447 | -481.96 | 0.860655 |
| TCGA-DD-AAVS-01A-11R-A41C-07 | Immunity\_H | -682.421 | 223.0969 | -459.324 | 0.858959 |
| TCGA-DD-AAD3-01A-11R-A41C-07 | Immunity\_H | 21.89845 | 720.262 | 742.1604 | 0.755796 |
| TCGA-DD-A1ED-01A-11R-A155-07 | Immunity\_H | -91.051 | 1142.394 | 1051.343 | 0.72531 |
| TCGA-CC-A123-01A-11R-A131-07 | Immunity\_L | -850.928 | 377.6595 | -473.269 | 0.860005 |
| TCGA-DD-A11B-01A-11R-A131-07 | Immunity\_L | -865.844 | -292.68 | -1158.52 | 0.9069 |
| TCGA-G3-A25Y-01A-11R-A16W-07 | Immunity\_H | -181.154 | 605.8051 | 424.6508 | 0.785482 |
| TCGA-CC-A7IH-01A-11R-A33J-07 | Immunity\_L | -970.249 | -439.413 | -1409.66 | 0.921813 |
| TCGA-WQ-A9G7-01A-11R-A37K-07 | Immunity\_L | -1276.46 | -256.357 | -1532.82 | 0.928669 |
| TCGA-BW-A5NP-01A-11R-A27V-07 | Immunity\_L | -1349.31 | -527.2 | -1876.51 | 0.946192 |
| TCGA-BW-A5NQ-01A-11R-A27V-07 | Immunity\_H | -802.56 | 1410.337 | 607.7763 | 0.768565 |
| TCGA-EP-A2KC-01A-11R-A213-07 | Immunity\_L | -799.158 | 148.582 | -650.576 | 0.872993 |
| TCGA-RC-A6M5-01A-11R-A32O-07 | Immunity\_H | 342.4549 | 233.0595 | 575.5144 | 0.771586 |
| TCGA-DD-AACA-02A-11R-A41C-07 | Immunity\_L | -944.614 | -707.354 | -1651.97 | 0.935014 |
| TCGA-BC-A3KG-01A-11R-A213-07 | Immunity\_L | -1278.58 | -90.1274 | -1368.71 | 0.919466 |
| TCGA-CC-A8HS-01A-11R-A36F-07 | Immunity\_L | -1160.66 | -387.746 | -1548.41 | 0.929516 |
| TCGA-CC-5263-01A-01R-A131-07 | Immunity\_H | -792.122 | 645.9539 | -146.168 | 0.834522 |
| TCGA-2Y-A9GU-01A-11R-A38B-07 | Immunity\_L | -1010.13 | -174.713 | -1184.84 | 0.908521 |
| TCGA-BC-A216-01A-11R-A155-07 | Immunity\_H | -980.912 | 876.4525 | -104.459 | 0.831133 |
| TCGA-DD-AAEA-01A-11R-A41C-07 | Immunity\_L | -1008.4 | 716.9278 | -291.474 | 0.846083 |
| TCGA-DD-A4ND-01A-11R-A266-07 | Immunity\_H | 618.3545 | 1158.677 | 1777.031 | 0.648005 |
| TCGA-ZP-A9D0-01A-11R-A37K-07 | Immunity\_L | -725.631 | -179.06 | -904.691 | 0.890575 |
| TCGA-DD-A4NV-01A-11R-A311-07 | Immunity\_L | -221.97 | 257.4978 | 35.52767 | 0.819532 |
| TCGA-ZP-A9CV-01A-11R-A38B-07 | Immunity\_H | -150.597 | 956.5058 | 805.9086 | 0.749635 |
| TCGA-ED-A7XO-01A-11R-A352-07 | Immunity\_H | -154.07 | 803.4127 | 649.3429 | 0.764647 |
| TCGA-G3-AAV2-01A-11R-A37K-07 | Immunity\_L | -782.932 | 96.88943 | -686.043 | 0.875521 |
| TCGA-ZS-A9CD-01A-11R-A37K-07 | Immunity\_H | -259.447 | 674.2278 | 414.7812 | 0.786378 |
| TCGA-BC-A10T-01A-11R-A131-07 | Immunity\_H | 133.0674 | 214.3257 | 347.3931 | 0.79245 |
| TCGA-MR-A8JO-01A-12R-A36F-07 | Immunity\_H | 759.9058 | 1464.55 | 2224.455 | 0.596622 |
| TCGA-2Y-A9GX-01A-11R-A38B-07 | Immunity\_H | 730.6225 | 1703.763 | 2434.386 | 0.571612 |
| TCGA-DD-A118-01A-11R-A131-07 | Immunity\_L | -370.057 | 54.17269 | -315.884 | 0.847988 |
| TCGA-BC-A110-01A-11R-A131-07 | Immunity\_H | 660.9759 | 1589.133 | 2250.109 | 0.593595 |
| TCGA-RC-A7SB-01A-21R-A352-07 | Immunity\_L | -1046.39 | 47.24046 | -999.153 | 0.896796 |
| TCGA-DD-AADJ-01A-11R-A41C-07 | Immunity\_L | -1006.26 | 471.7245 | -534.538 | 0.864559 |
| TCGA-DD-A11A-01A-11R-A131-07 | Immunity\_L | -1054.6 | -191.146 | -1245.75 | 0.91222 |
| TCGA-DD-A4NK-01A-11R-A28V-07 | Immunity\_L | -716.5 | -80.7816 | -797.281 | 0.883293 |
| TCGA-DD-AACS-01A-11R-A41C-07 | Immunity\_L | -1224.78 | -341.527 | -1566.31 | 0.930482 |
| TCGA-UB-A7ME-01A-11R-A33J-07 | Immunity\_H | -418.69 | 1198.352 | 779.6617 | 0.75218 |
| TCGA-DD-A39W-01A-11R-A213-07 | Immunity\_L | -982.302 | -41.8145 | -1024.12 | 0.898411 |
| TCGA-DD-AACV-01A-11R-A41C-07 | Immunity\_L | -1389.19 | -710.032 | -2099.22 | 0.956264 |
| TCGA-CC-A7IG-01A-11R-A33J-07 | Immunity\_L | -946.161 | 482.1818 | -463.979 | 0.859308 |
| TCGA-DD-AADV-01A-11R-A39D-07 | Immunity\_L | -427.956 | 182.6944 | -245.261 | 0.842448 |
| TCGA-G3-A5SJ-01A-11R-A27V-07 | Immunity\_H | -591.584 | 1251.424 | 659.8402 | 0.763653 |
| TCGA-LG-A9QC-01A-11R-A37K-07 | Immunity\_L | -952.479 | -374.507 | -1326.99 | 0.917041 |
| TCGA-HP-A5N0-01A-11R-A28V-07 | Immunity\_L | 172.466 | 575.3598 | 747.8258 | 0.755251 |
| TCGA-DD-A119-01A-11R-A131-07 | Immunity\_H | -349.155 | 355.2854 | 6.130247 | 0.821997 |
| TCGA-ZP-A9D1-01A-11R-A38B-07 | Immunity\_H | -203.065 | 657.4466 | 454.3816 | 0.782774 |
| TCGA-ZP-A9D2-01A-11R-A38B-07 | Immunity\_H | -515.622 | 252.807 | -262.815 | 0.843833 |
| TCGA-NI-A4U2-01A-11R-A28V-07 | Immunity\_L | -465.599 | 205.1918 | -260.407 | 0.843644 |
| TCGA-DD-AACN-01A-11R-A41C-07 | Immunity\_H | -304.391 | 364.6451 | 60.25447 | 0.817447 |
| TCGA-2Y-A9GT-01A-11R-A38B-07 | Immunity\_H | -164.481 | 1517.792 | 1353.311 | 0.694093 |
| TCGA-BC-A10Q-01A-11R-A131-07 | Immunity\_H | -683.751 | 221.6059 | -462.145 | 0.859171 |
| TCGA-DD-AAVZ-01A-11R-A41C-07 | Immunity\_H | -787.42 | 107.251 | -680.169 | 0.875104 |
| TCGA-2Y-A9GZ-01A-11R-A39D-07 | Immunity\_L | -995.163 | -382.13 | -1377.29 | 0.919961 |
| TCGA-DD-AAD8-01A-11R-A41C-07 | Immunity\_L | -968.521 | 135.8593 | -832.661 | 0.885716 |
| TCGA-CC-A8HV-01A-11R-A36F-07 | Immunity\_L | -1243.76 | -407.45 | -1651.21 | 0.934975 |
| TCGA-DD-AAVW-01A-11R-A41C-07 | Immunity\_H | 226.6671 | 822.5244 | 1049.191 | 0.725527 |
| TCGA-DD-A4NO-01A-11R-A28V-07 | Immunity\_L | -358.376 | 180.6288 | -177.748 | 0.837067 |
| TCGA-RC-A7SK-01A-11R-A352-07 | Immunity\_L | -1155.01 | -346.13 | -1501.14 | 0.926935 |
| TCGA-CC-A3MB-01A-11R-A213-07 | Immunity\_H | -962.873 | 41.4814 | -921.392 | 0.891687 |
| TCGA-CC-A8HU-01A-11R-A36F-07 | Immunity\_L | -1191.28 | -220 | -1411.28 | 0.921905 |
| TCGA-DD-A4NA-01A-11R-A266-07 | Immunity\_H | -407.584 | 583.0748 | 175.4912 | 0.807587 |
| TCGA-DD-AAE2-01A-11R-A41C-07 | Immunity\_H | -233.675 | 934.5449 | 700.8699 | 0.759751 |
| TCGA-RG-A7D4-01A-12R-A33R-07 | Immunity\_H | -1092.41 | 1537.178 | 444.7669 | 0.783652 |
| TCGA-DD-AACU-01A-11R-A41C-07 | Immunity\_H | -690.904 | 440.5014 | -250.403 | 0.842854 |
| TCGA-O8-A75V-01A-11R-A32O-07 | Immunity\_H | -224.245 | 1192.89 | 968.6458 | 0.733613 |
| TCGA-G3-A7M5-01A-11R-A33R-07 | Immunity\_L | -944.066 | 377.7936 | -566.272 | 0.866891 |
| TCGA-ED-A5KG-01A-11R-A27V-07 | Immunity\_H | 560.7323 | 3157.283 | 3718.016 | 0.407804 |
| TCGA-G3-AAV5-01A-11R-A37K-07 | Immunity\_L | -1093.93 | 98.15718 | -995.77 | 0.896576 |
| TCGA-DD-A3A9-01A-11R-A266-07 | Immunity\_H | -61.194 | 880.1284 | 818.9344 | 0.748369 |
| TCGA-DD-AADO-01A-11R-A41C-07 | Immunity\_L | -779.208 | 1464.276 | 685.0672 | 0.761257 |
| TCGA-DD-A4NQ-01A-21R-A28V-07 | Immunity\_H | -953.375 | 637.5233 | -315.851 | 0.847985 |
| TCGA-DD-AADQ-01A-11R-A41C-07 | Immunity\_L | -1160.11 | 549.6183 | -610.496 | 0.870109 |
| TCGA-DD-A4NL-01A-11R-A28V-07 | Immunity\_H | -208.16 | 420.3637 | 212.2041 | 0.804397 |
| TCGA-K7-A5RG-01A-11R-A28V-07 | Immunity\_H | -208.962 | 2481.757 | 2272.796 | 0.590912 |
| TCGA-UB-AA0U-01A-11R-A38B-07 | Immunity\_H | 41.75402 | 766.0743 | 807.8283 | 0.749449 |
| TCGA-DD-AACA-01A-11R-A41C-07 | Immunity\_L | -1036.99 | -220.528 | -1257.52 | 0.912927 |
| TCGA-MI-A75E-01A-11R-A32O-07 | Immunity\_H | -147.38 | 946.1324 | 798.7526 | 0.75033 |
| TCGA-DD-AAEE-01A-11R-A41C-07 | Immunity\_L | -971.933 | -216.736 | -1188.67 | 0.908755 |
| TCGA-BC-A69H-01A-11R-A311-07 | Immunity\_L | -811.647 | 932.2165 | 120.5694 | 0.812315 |
| TCGA-DD-AADR-01A-11R-A41C-07 | Immunity\_H | -815.315 | 563.5625 | -251.752 | 0.842961 |
| TCGA-DD-A3A7-01A-11R-A22L-07 | Immunity\_L | -1115.29 | 322.6387 | -792.656 | 0.882975 |
| TCGA-DD-A11C-01A-11R-A131-07 | Immunity\_H | -106.048 | 473.3442 | 367.2961 | 0.790665 |
| TCGA-CC-A9FW-01A-11R-A37K-07 | Immunity\_L | -1331.77 | 171.0726 | -1160.7 | 0.907034 |
| TCGA-FV-A2QR-01A-11R-A213-07 | Immunity\_L | -233.547 | 217.2224 | -16.3242 | 0.82387 |
| TCGA-DD-AACX-01A-11R-A41C-07 | Immunity\_L | -1259.62 | 203.3218 | -1056.3 | 0.900475 |
| TCGA-BC-A10U-01A-11R-A131-07 | Immunity\_L | -1251.87 | 69.17789 | -1182.69 | 0.908389 |
| TCGA-G3-A5SM-01A-12R-A28V-07 | Immunity\_H | 74.61221 | 996.8552 | 1071.467 | 0.723273 |
| TCGA-DD-AAVQ-01A-11R-A41C-07 | Immunity\_H | -298.721 | 2022.506 | 1723.785 | 0.653938 |
| TCGA-BC-A10Z-01A-11R-A131-07 | Immunity\_L | -1472.79 | -722.562 | -2195.35 | 0.960296 |
| TCGA-DD-A4NR-01A-11R-A311-07 | Immunity\_H | 163.0175 | 2304.798 | 2467.816 | 0.567579 |
| TCGA-ZS-A9CE-01A-11R-A37K-07 | Immunity\_L | -1195.64 | -498.65 | -1694.29 | 0.937199 |
| TCGA-RC-A6M6-01A-11R-A32O-07 | Immunity\_L | -1395.4 | -2.05092 | -1397.45 | 0.921117 |
| TCGA-DD-A1EH-01A-11R-A131-07 | Immunity\_H | -484.884 | -91.026 | -575.91 | 0.867595 |
| TCGA-DD-A1EC-01A-21R-A131-07 | Immunity\_H | -180.516 | 2424.078 | 2243.562 | 0.594369 |
| TCGA-DD-A39Y-01A-11R-A213-07 | Immunity\_L | -1194.49 | 28.29858 | -1166.19 | 0.907373 |
| TCGA-ED-A7PZ-01A-11R-A33R-07 | Immunity\_L | -1482.06 | -510.339 | -1992.39 | 0.95156 |
| TCGA-CC-A9FS-01A-11R-A37K-07 | Immunity\_L | -949.396 | 31.3563 | -918.039 | 0.891464 |
| TCGA-CC-A3MA-01A-11R-A213-07 | Immunity\_H | -486.846 | -78.8242 | -565.67 | 0.866847 |
| TCGA-DD-A4NH-01A-11R-A27V-07 | Immunity\_H | -617.975 | 935.2918 | 317.3164 | 0.795135 |
| TCGA-DD-AADD-01A-11R-A41C-07 | Immunity\_L | -1476.24 | -89.1235 | -1565.36 | 0.930431 |
| TCGA-2Y-A9H5-01A-11R-A38B-07 | Immunity\_H | -309.108 | 283.4464 | -25.6613 | 0.824646 |
| TCGA-RC-A6M4-01A-11R-A32O-07 | Immunity\_L | -1265.38 | -636.683 | -1902.06 | 0.947399 |
| TCGA-5C-A9VG-01A-11R-A37K-07 | Immunity\_L | -421.396 | -291.003 | -712.399 | 0.877383 |
| TCGA-RC-A7SF-01A-11R-A352-07 | Immunity\_L | -966.822 | 322.6571 | -644.164 | 0.872534 |
| TCGA-DD-AACE-01A-11R-A41C-07 | Immunity\_L | -719.284 | -55.8487 | -775.132 | 0.881764 |
| TCGA-G3-A7M8-01A-11R-A33R-07 | Immunity\_L | -283.261 | 309.8199 | 26.5592 | 0.820286 |
| TCGA-MI-A75I-01A-11R-A32O-07 | Immunity\_L | -1152.91 | 216.8422 | -936.071 | 0.89266 |
| TCGA-CC-5259-01A-31R-A213-07 | Immunity\_L | -1298.13 | 590.5668 | -707.564 | 0.877043 |
| TCGA-G3-A7M7-01A-12R-A352-07 | Immunity\_L | -798.427 | -46.8864 | -845.313 | 0.886577 |
| TCGA-HP-A5MZ-01A-21R-A27V-07 | Immunity\_H | 615.3122 | 1554.39 | 2169.702 | 0.603052 |
| TCGA-DD-A73D-01A-12R-A32O-07 | Immunity\_L | -1521.78 | -649.891 | -2171.67 | 0.95932 |
| TCGA-WX-AA44-01A-11R-A39D-07 | Immunity\_H | -911.847 | 393.606 | -518.241 | 0.863355 |
| TCGA-DD-AADU-01A-11R-A41C-07 | Immunity\_L | -1270.19 | 12.55331 | -1257.64 | 0.912934 |
| TCGA-FV-A4ZP-01A-12R-A266-07 | Immunity\_L | -731.267 | 1235.37 | 504.1027 | 0.778211 |
| TCGA-ZS-A9CF-01A-11R-A38B-07 | Immunity\_L | -857.034 | 399.1519 | -457.882 | 0.85885 |
| TCGA-PD-A5DF-01A-11R-A27V-07 | Immunity\_H | 161.8668 | 899.5525 | 1061.419 | 0.724291 |
| TCGA-DD-AAD6-01A-11R-A41C-07 | Immunity\_L | -1434.83 | 68.18206 | -1366.65 | 0.919347 |
| TCGA-WX-AA46-01A-11R-A39D-07 | Immunity\_L | -284.135 | 444.5405 | 160.4053 | 0.808891 |
| TCGA-BC-A10R-01A-11R-A131-07 | Immunity\_H | -100.377 | 19.32305 | -81.054 | 0.829218 |
| TCGA-2Y-A9GS-01A-12R-A38B-07 | Immunity\_H | -524.653 | 636.3562 | 111.7034 | 0.813074 |
| TCGA-WX-AA47-01A-11R-A39D-07 | Immunity\_L | -1379.19 | -401.421 | -1780.61 | 0.941543 |
| TCGA-KR-A7K0-01A-12R-A33R-07 | Immunity\_L | -529.473 | 314.6548 | -214.819 | 0.840032 |
| TCGA-UB-AA0V-01A-11R-A38B-07 | Immunity\_H | 129.5588 | 626.6908 | 756.2496 | 0.75444 |
| TCGA-DD-A116-01A-11R-A131-07 | Immunity\_L | -632.489 | 459.2291 | -173.259 | 0.836707 |
| TCGA-5R-AA1C-01A-11R-A41C-07 | Immunity\_L | -803.632 | 353.5736 | -450.058 | 0.858261 |
| TCGA-G3-A3CJ-01A-11R-A213-07 | Immunity\_L | -804.45 | 257.9042 | -546.546 | 0.865444 |
| TCGA-DD-A4NS-01A-11R-A311-07 | Immunity\_H | 587.01 | 1243.042 | 1830.052 | 0.642057 |
| TCGA-ED-A7XP-01A-11R-A352-07 | Immunity\_H | -347.168 | 511.9592 | 164.7915 | 0.808512 |
| TCGA-G3-A3CK-01A-11R-A213-07 | Immunity\_L | -700.08 | 721.7696 | 21.68975 | 0.820694 |
| TCGA-DD-AAE4-01A-11R-A41C-07 | Immunity\_H | 50.22355 | 1773.539 | 1823.763 | 0.642765 |
| TCGA-DD-AACL-01A-11R-A41C-07 | Immunity\_H | -490.185 | 1787.774 | 1297.589 | 0.699958 |
| TCGA-DD-AADW-01A-11R-A39D-07 | Immunity\_H | -540.44 | -353.928 | -894.368 | 0.889885 |
| TCGA-DD-A1EI-01A-11R-A131-07 | Immunity\_H | 1.053466 | 529.3055 | 530.359 | 0.775785 |
| TCGA-DD-A1EE-01A-11R-A131-07 | Immunity\_L | -1035.92 | -223.432 | -1259.35 | 0.913036 |
| TCGA-FV-A4ZQ-01A-11R-A266-07 | Immunity\_H | -966.426 | 1757.74 | 791.3137 | 0.751052 |
| TCGA-G3-AAV3-01A-11R-A37K-07 | Immunity\_H | -316.236 | 1377.087 | 1060.85 | 0.724348 |
| TCGA-CC-A5UE-01A-11R-A28V-07 | Immunity\_L | -1508.5 | 6.053282 | -1502.45 | 0.927007 |
| TCGA-BC-4073-01B-02R-A131-07 | Immunity\_H | -17.7901 | 1927.226 | 1909.436 | 0.63308 |
| TCGA-BD-A3ER-01A-11R-A213-07 | Immunity\_H | 92.45868 | 619.3027 | 711.7614 | 0.75871 |
| TCGA-DD-A113-01A-11R-A131-07 | Immunity\_H | -722.694 | 511.5984 | -211.095 | 0.839735 |
| TCGA-DD-A3A8-01A-11R-A22L-07 | Immunity\_L | -1103.95 | -157.809 | -1261.76 | 0.91318 |
| TCGA-ED-A7PX-01A-51R-A352-07 | Immunity\_H | 37.18491 | 399.3103 | 436.4952 | 0.784405 |
| TCGA-DD-AADP-01A-11R-A39D-07 | Immunity\_H | -523.599 | 386.7913 | -136.808 | 0.833764 |
| TCGA-CC-A7IJ-01A-11R-A33R-07 | Immunity\_H | 838.7786 | 1934.96 | 2773.738 | 0.530047 |
| TCGA-DD-A1EL-01A-11R-A155-07 | Immunity\_H | -1299.03 | 227.117 | -1071.92 | 0.90147 |
| TCGA-DD-A1EK-01A-11R-A213-07 | Immunity\_H | -359.011 | 818.2729 | 459.2614 | 0.782328 |
| TCGA-G3-A3CH-01A-11R-A22L-07 | Immunity\_H | -425.278 | 604.8997 | 179.6219 | 0.807229 |
| TCGA-ED-A8O6-01A-11R-A36F-07 | Immunity\_L | -946.346 | 17.65268 | -928.694 | 0.892172 |
| TCGA-2Y-A9H8-01A-11R-A39D-07 | Immunity\_L | -919.535 | 931.9993 | 12.46469 | 0.821467 |
| TCGA-DD-AACP-01A-11R-A41C-07 | Immunity\_L | -1622.33 | -286.644 | -1908.97 | 0.947723 |
| TCGA-DD-A4NI-01A-11R-A27V-07 | Immunity\_H | -126.538 | 1033.749 | 907.2108 | 0.739711 |
| TCGA-G3-A3CI-01A-11R-A213-07 | Immunity\_H | -336.857 | 976.3994 | 639.5428 | 0.765573 |
| TCGA-DD-A73G-01A-22R-A32O-07 | Immunity\_L | -703.279 | 622.5973 | -80.6812 | 0.829187 |
| TCGA-DD-AACY-01A-11R-A41C-07 | Immunity\_L | -747.463 | 333.7371 | -413.726 | 0.855512 |
| TCGA-2Y-A9H0-01A-11R-A38B-07 | Immunity\_H | -1069.74 | 810.5094 | -259.232 | 0.843551 |
| TCGA-DD-AAVV-01A-11R-A41C-07 | Immunity\_H | 67.61635 | 1464.403 | 1532.019 | 0.674972 |
| TCGA-DD-AACC-01A-11R-A41C-07 | Immunity\_H | 133.8146 | 2617.594 | 2751.408 | 0.532824 |
| TCGA-DD-AACD-01A-11R-A41C-07 | Immunity\_L | -384.398 | 1065.898 | 681.4999 | 0.761596 |
| TCGA-G3-A25X-01A-11R-A16W-07 | Immunity\_H | -81.3593 | 1502.131 | 1420.772 | 0.68693 |
| TCGA-ES-A2HT-01A-12R-A180-07 | Immunity\_H | -209.201 | 737.8564 | 528.6558 | 0.775943 |
| TCGA-DD-A3A4-01A-11R-A22L-07 | Immunity\_L | -867.242 | -440.326 | -1307.57 | 0.9159 |
| TCGA-DD-AADA-01A-11R-A41C-07 | Immunity\_L | -290.881 | 1053.569 | 762.6877 | 0.753819 |
| TCGA-DD-A73F-01A-11R-A32O-07 | Immunity\_H | -158.285 | 1796.204 | 1637.919 | 0.663421 |
| TCGA-XR-A8TC-01A-11R-A36F-07 | Immunity\_L | -804.77 | -209.435 | -1014.2 | 0.897771 |
| TCGA-BC-A69I-01A-11R-A311-07 | Immunity\_L | -262.38 | 490.4278 | 228.0482 | 0.803013 |
| TCGA-DD-AAW2-01A-11R-A41C-07 | Immunity\_L | -814.426 | -234.241 | -1048.67 | 0.899988 |
| TCGA-UB-A7MD-01A-12R-A352-07 | Immunity\_H | -250.289 | 944.7586 | 694.4691 | 0.760361 |
| TCGA-RC-A7SH-01A-11R-A38B-07 | Immunity\_L | -1244.02 | -387.769 | -1631.79 | 0.933959 |
| TCGA-CC-A1HT-01A-11R-A131-07 | Immunity\_H | 162.9672 | 2106.489 | 2269.457 | 0.591308 |
| TCGA-ZP-A9CZ-01A-11R-A38B-07 | Immunity\_H | -235.682 | 1158.532 | 922.8494 | 0.738165 |