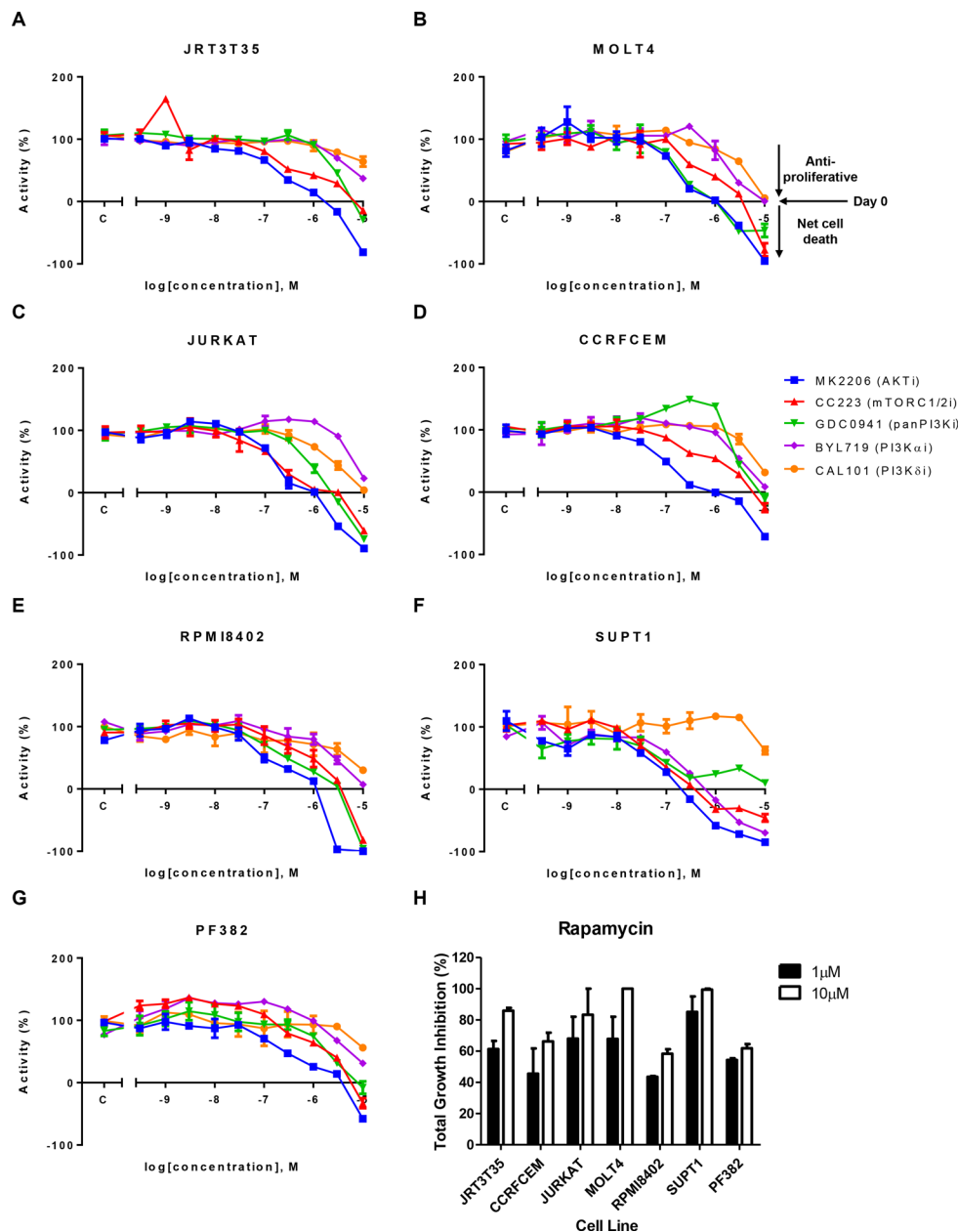
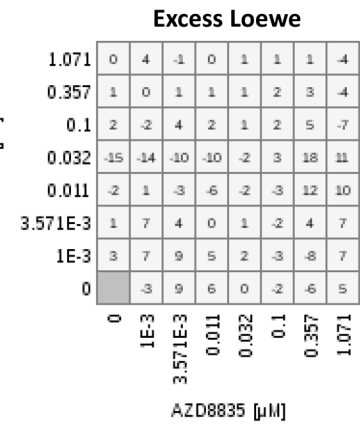
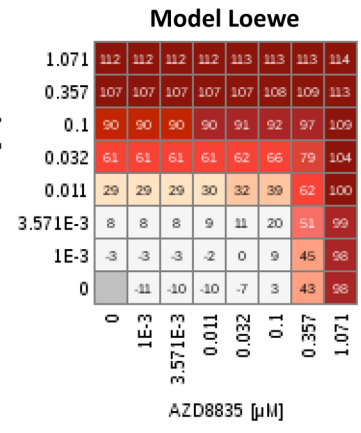
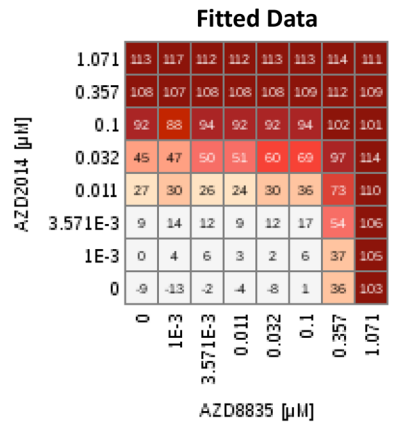
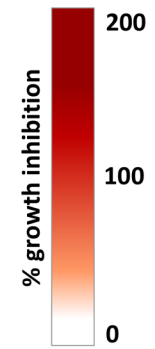


Identification of differential PI3K pathway target dependencies in T-cell acute lymphoblastic leukemia through a large cancer cell panel screen

Supplementary Materials

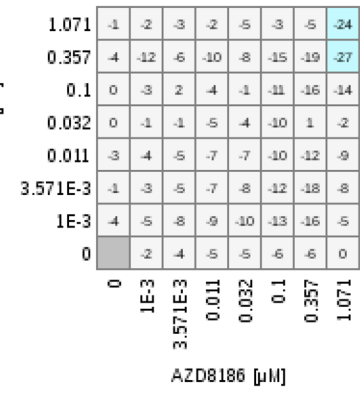
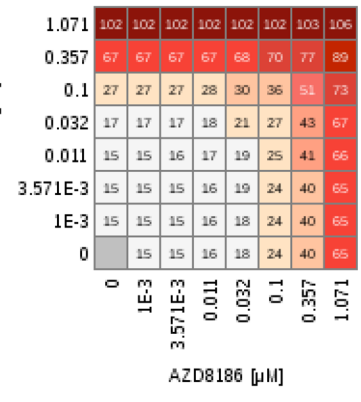
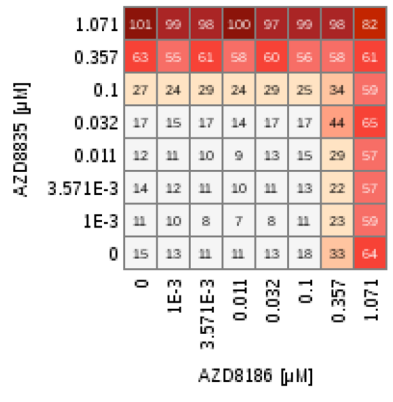


Supplementary Figure S1: A screen targeting multiple nodes of the PI3K pathway identify their differential requirements in T-ALL. A panel of T-ALL cell lines were treated with a dose response of different PI3K pathway inhibitors. Live cell number was assessed after five days using a sytox green endpoint. (A–G) Exemplar mean \pm S.E.M. dose response curves for the inhibitors across the T-ALL cell line panel. Zero activity represents the initial seeding density on the day of dosing (Day 0) ($n = 2$). (h) mean \pm S.E.M. growth inhibition following rapamycin treatment across the cell line panel ($n = 2$). S.E.M = standard error of the mean.

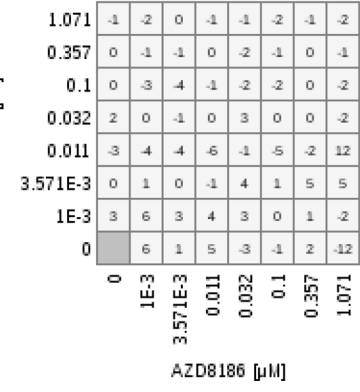
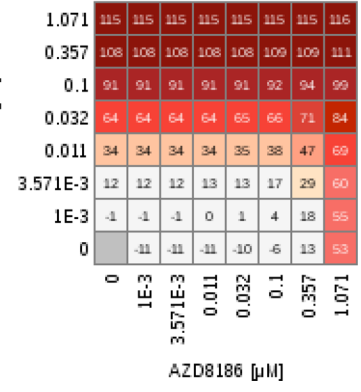
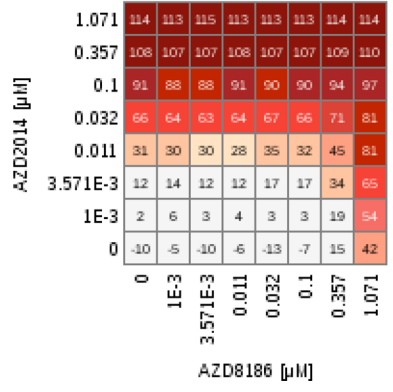


Synergy Score

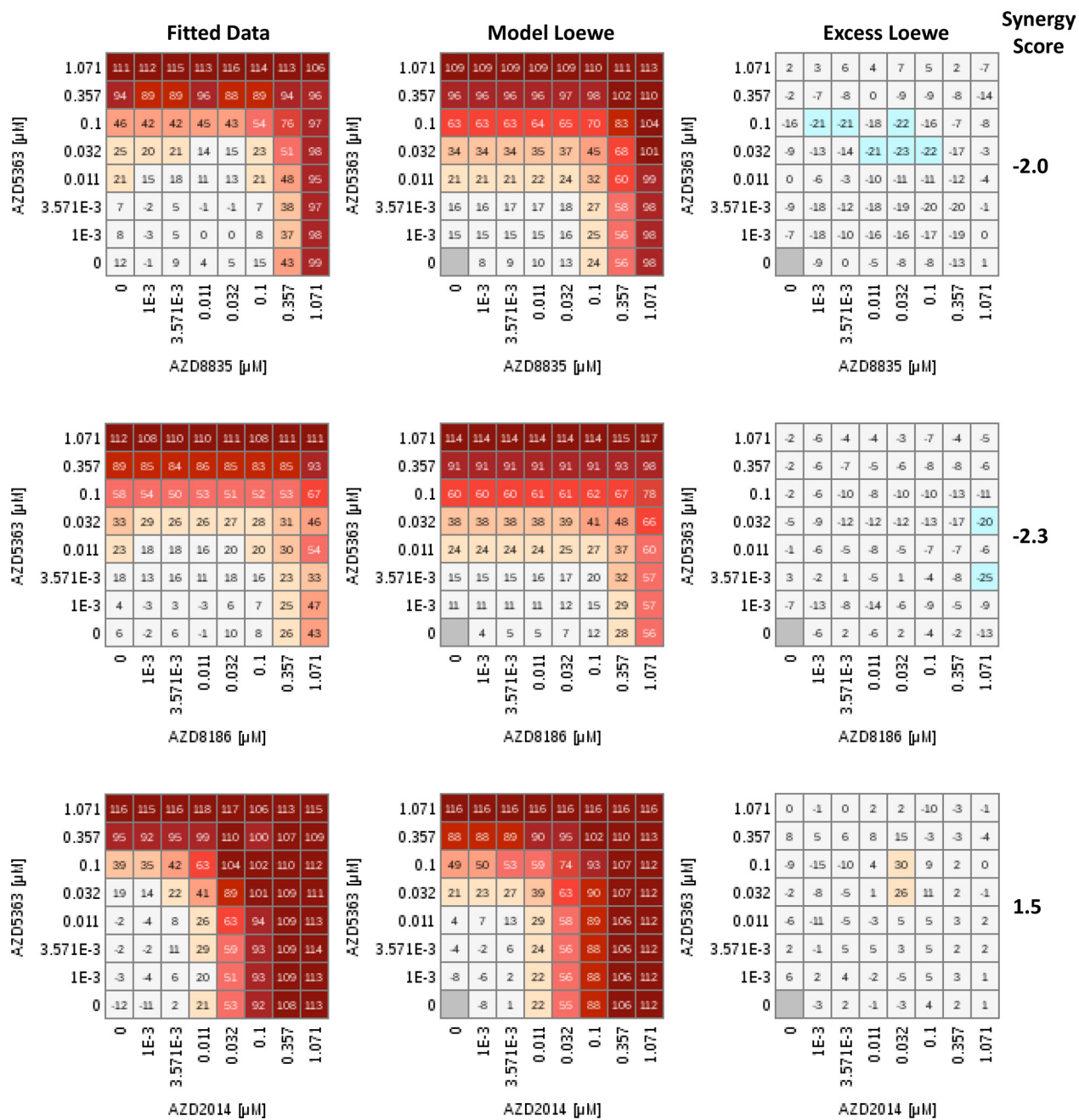
0.744



-2.1

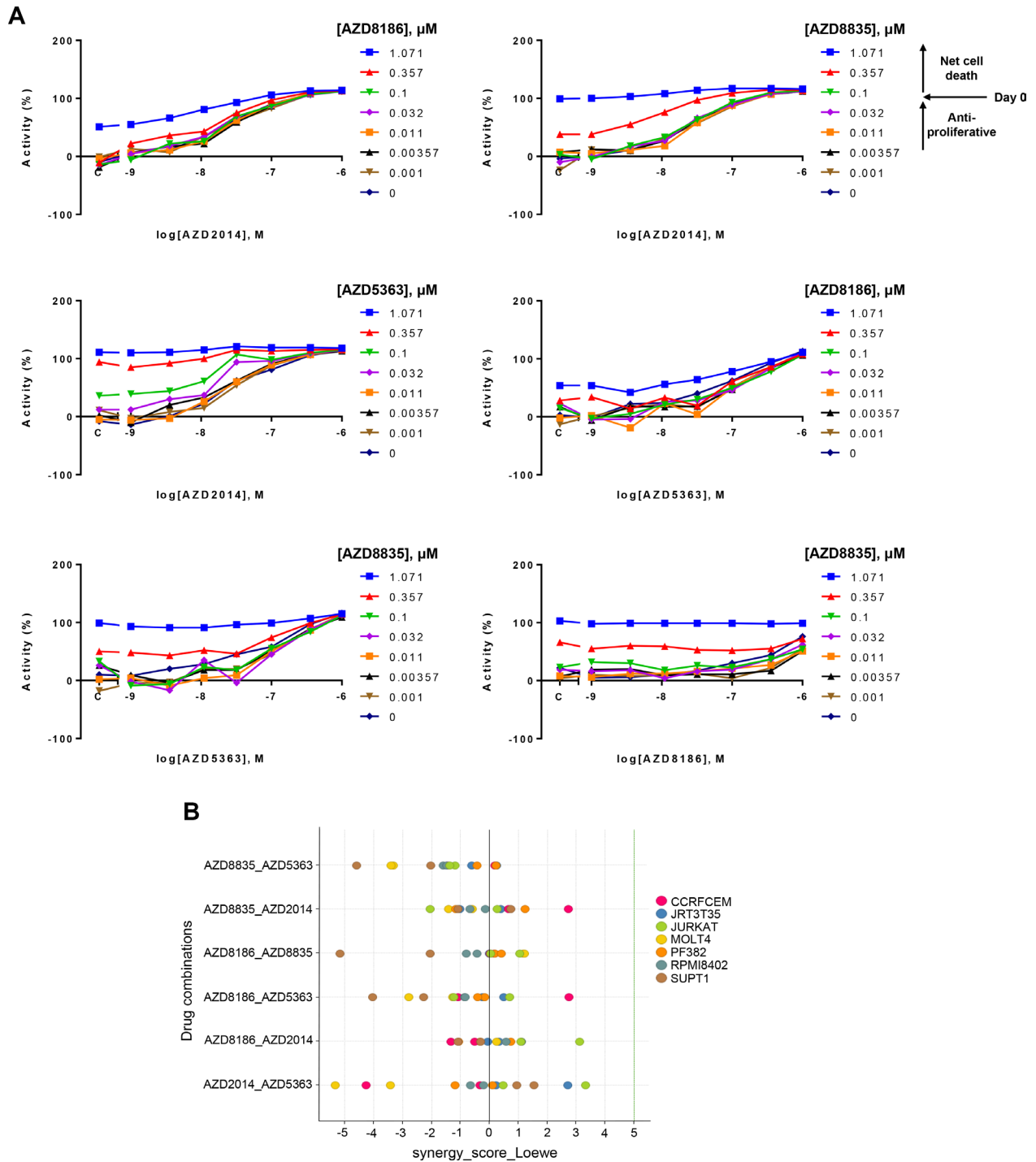


-0.3



Supplementary Figure S2: PI3K intra-pathway combinations induce additive but not synergistic effects in T-ALL.

A panel of T-ALL cell lines were treated with a dose response of different PI3K pathway inhibitors in a 8×8 dose response matrix. Live cell number was assessed after five days using a sytox green endpoint and synergy scores were generated using the Loewe model of additivity. Representative dose matrices and synergy scores from one experiment from the SUPT1 cell line. Fitted data: dose matrix representing percent growth inhibition values. Model Loewe: Loewe model of additivity calculated from the monotherapy dose response curves. Excess Loewe: Excess heatmap (synergy) calculated by subtracting the Loewe model of additivity data from the fitted data. Calculated synergy scores for each cell line are shown in the far right column.



Supplementary Figure S3: PI3K intra-pathway combinations induce additive but not synergistic effects in T-ALL.

A panel of T-ALL cell lines were treated with a dose response of different PI3K pathway inhibitors in a 8×8 dose response matrix. Live cell number was assessed after 5 days using a sytox green endpoint and synergy scores were generated using the Loewe model of additivity. (A) Exemplar mean dose response curves for the inhibitor combinations in the SUPT1 cell line. 100% activity represents the initial seeding density on the day of dosing (Day 0) ($n = 2$). (B) Comparison of mean synergy scores for the PI3K intra-pathway combinations across the T-ALL cell lines ($n = 2$). S.E.M = standard error of the mean.

Supplementary Table 1: Sanger cancer cell line pharmacology results

| Cell Line | Tissue | AZD2014 (IC ₅₀ uM) | AZD5363 (IC ₅₀ uM) | AZD8186 (IC ₅₀ uM) | AZD8835 (IC ₅₀ uM) |
|--------------|---------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| HUCCT1 | biliary tract | 0.248 | 72.199 | 2.911 | 65.066 |
| EG11 | biliary tract | 0.447 | 429.161 | 9.006 | 11.756 |
| ETK1 | biliary tract | 0.478 | 43.247 | 8.249 | 5.836 |
| TGBC1TKB | biliary tract | 0.684 | 34.178 | 15.719 | 315.880 |
| TGBC24TKB | biliary tract | 0.761 | 24.288 | 68.985 | 3.673 |
| VMCUB1 | bladder | 0.119 | 137.852 | 7.460 | 72.429 |
| CAL29 | bladder | 0.187 | 1.552 | 4.628 | 0.658 |
| SW780 | bladder | 0.190 | 47.688 | 4.924 | 152.344 |
| 647V | bladder | 0.254 | 64.434 | 2.735 | 49.061 |
| RT112 | bladder | 0.267 | 8.427 | 8.595 | 7.475 |
| TCCSUP | bladder | 0.275 | 26.510 | 11.813 | 8.067 |
| UMUC3 | bladder | 0.397 | 40.195 | 3.750 | 29.481 |
| BFTC905 | bladder | 0.397 | 164.294 | 6.309 | 2.358 |
| SW1710 | bladder | 0.519 | 2.631 | 0.997 | 8.654 |
| SCABER | bladder | 0.552 | 12.908 | 5.458 | 43.158 |
| KU1919 | bladder | 0.722 | 35.541 | 100.822 | 126.278 |
| 5637 | bladder | 0.726 | 45.177 | 8.552 | 41.184 |
| J82 | bladder | 0.819 | 39.122 | 11.059 | 42.789 |
| HT1197 | bladder | 1.074 | 43.599 | 14.050 | 3.673 |
| T24 | bladder | 1.181 | 47.341 | 3.438 | 26.019 |
| LB831BLC | bladder | 1.560 | 16.495 | 23.080 | 13.142 |
| HT1376 | bladder | 3.550 | 148.414 | 10.564 | 53.431 |
| DSH1 | bladder | 3.565 | 1.704 | 327.278 | 31.022 |
| RT4 | bladder | 3.791 | 3443.195 | 79.547 | 43.591 |
| HH | blood/lymph | 0.015 | 15.159 | 0.075 | 0.243 |
| CCRFCEM | blood/lymph | 0.038 | 0.231 | 13.779 | 6.943 |
| SUDHL5 | blood/lymph | 0.038 | 0.300 | 0.036 | 0.187 |
| CROAP3 | blood/lymph | 0.041 | 7.219 | 45.969 | 68.326 |
| H929 | blood/lymph | 0.043 | 0.003 | 0.729 | 0.285 |
| RAMOS2G64C10 | blood/lymph | 0.044 | 1.517 | 14.669 | 287.287 |
| GA10 | blood/lymph | 0.046 | 5.785 | 3.171 | 13.316 |
| MOLT4 | blood/lymph | 0.046 | 0.277 | 0.530 | 0.811 |
| SUPM2 | blood/lymph | 0.047 | 110.527 | 2.201 | 3.174 |
| MHHPREB1 | blood/lymph | 0.049 | 6.218 | 1.450 | 6.082 |
| P30OHK | blood/lymph | 0.049 | 8.710 | 0.287 | 0.222 |
| MOLM16 | blood/lymph | 0.050 | 1.094 | 0.341 | 0.989 |
| L363 | blood/lymph | 0.051 | 0.273 | 1.993 | 0.525 |
| GRST | blood/lymph | 0.052 | 1.208 | 3.481 | 1.874 |
| EM2 | blood/lymph | 0.055 | 2.082 | 8.070 | 8.349 |
| MEC1 | blood/lymph | 0.062 | 5.479 | 0.436 | 0.320 |
| 697 | blood/lymph | 0.069 | 5.329 | 1.991 | 1.396 |
| RPMI8402 | blood/lymph | 0.075 | 3.659 | 0.218 | 1.100 |
| KCL22 | blood/lymph | 0.076 | | 28.319 | 36.555 |
| TUR | blood/lymph | 0.076 | 0.332 | 4.761 | 4.194 |

| | | | | | |
|--------------|-------------|-------|----------|---------|----------|
| JRT3T35 | blood/lymph | 0.079 | 0.124 | 7.610 | 96.813 |
| EB3 | blood/lymph | 0.083 | 891.047 | 25.739 | 104.271 |
| DEL | blood/lymph | 0.089 | 2024.822 | 8.091 | 148.056 |
| MOLM13 | blood/lymph | 0.089 | 0.659 | 5.041 | 1.727 |
| BC1 | blood/lymph | 0.091 | 76.186 | 26.256 | 58.809 |
| JEK01 | blood/lymph | 0.098 | 2.718 | 1.402 | 1.966 |
| RPMI8866 | blood/lymph | 0.100 | 3.015 | 0.266 | 0.635 |
| CROAP2 | blood/lymph | 0.101 | 1.363 | 4.170 | 2.806 |
| A3KAW | blood/lymph | 0.102 | 188.901 | 16.825 | 240.363 |
| CA46 | blood/lymph | 0.115 | 154.631 | 8.848 | 12.762 |
| AMO1 | blood/lymph | 0.119 | 11.791 | 6.788 | 6.034 |
| BL70 | blood/lymph | 0.121 | | 3.630 | 7.916 |
| RPMI8226 | blood/lymph | 0.121 | 20.862 | 9.733 | 120.000 |
| MV411 | blood/lymph | 0.121 | 1.908 | 13.662 | 4.072 |
| DB | blood/lymph | 0.124 | | 14.954 | 175.601 |
| JY YOYEP2003 | blood/lymph | 0.126 | 214.340 | 17.036 | 24.798 |
| A4FUK | blood/lymph | 0.128 | 0.855 | 10.424 | 14.779 |
| MCCAR | blood/lymph | 0.135 | 0.146 | 179.217 | 13.090 |
| NKM1 | blood/lymph | 0.135 | 11.410 | 3.911 | 2.997 |
| U698M | blood/lymph | 0.138 | 29.797 | 21.165 | 88.321 |
| HC1 | blood/lymph | 0.146 | 92.931 | 3.848 | 3.709 |
| REH | blood/lymph | 0.149 | 1.836 | 0.850 | 0.666 |
| KG1 | blood/lymph | 0.151 | 113.113 | 32.798 | 9.277 |
| KASUMI1 | blood/lymph | 0.153 | 0.499 | 0.911 | 0.437 |
| MOLP8 | blood/lymph | 0.160 | 2.535 | 3.359 | 3.786 |
| MONOMAC6 | blood/lymph | 0.166 | 1.455 | 4.420 | 2.518 |
| EOL1 | blood/lymph | 0.168 | 0.905 | 24.014 | 5.560 |
| DG75 | blood/lymph | 0.172 | 4.847 | 54.735 | 155.821 |
| KU812 | blood/lymph | 0.178 | 7.788 | 48.495 | 1086.897 |
| SUDHL16 | blood/lymph | 0.178 | 0.505 | 3.235 | 1.285 |
| DAUDI | blood/lymph | 0.179 | 39.470 | 5.957 | 10.877 |
| RAJI | blood/lymph | 0.181 | 716.889 | 58.906 | 157.034 |
| WSUNHL | blood/lymph | 0.185 | 0.344 | 0.149 | 0.247 |
| MOLT16 | blood/lymph | 0.186 | 0.025 | 43.151 | 8.730 |
| L540 | blood/lymph | 0.188 | 61.509 | 43.411 | 10.889 |
| LOUCY | blood/lymph | 0.197 | 0.147 | 139.459 | 3.362 |
| BE13 | blood/lymph | 0.198 | 11.073 | 305.799 | 141.762 |
| GDM1 | blood/lymph | 0.218 | 1027.702 | 2.986 | 1.282 |
| HAL01 | blood/lymph | 0.222 | 5.195 | 0.660 | 0.250 |
| MOLT13 | blood/lymph | 0.228 | 34.297 | 58.799 | 276.863 |
| OCILY7 | blood/lymph | 0.249 | 0.076 | 2.015 | 7.747 |
| RCHACV | blood/lymph | 0.255 | 0.910 | 0.655 | 0.715 |
| KMOE2 | blood/lymph | 0.258 | 6.687 | 25.880 | 11.267 |
| ARH77 | blood/lymph | 0.258 | 1821.187 | 7.327 | 10.417 |
| SKMM2 | blood/lymph | 0.260 | 23.948 | 23.980 | 5.197 |
| OCIAML2 | blood/lymph | 0.264 | 42.213 | 31.289 | 27.789 |
| MEG01 | blood/lymph | 0.267 | 141.030 | 123.585 | 119.371 |

| | | | | | |
|-----------|-------------|-------|----------|---------|---------|
| KMS11 | blood/lymph | 0.267 | 295.708 | 7.989 | 4.970 |
| MC1010 | blood/lymph | 0.270 | 0.686 | 0.362 | 0.629 |
| JURKAT | blood/lymph | 0.271 | 7.445 | 26.197 | 11.429 |
| KARPAS620 | blood/lymph | 0.274 | 0.473 | 10.986 | 6.115 |
| H9 | blood/lymph | 0.285 | 42.140 | 74.904 | 36.009 |
| JVM2 | blood/lymph | 0.292 | 5.080 | 0.834 | 2.045 |
| HDMYZ | blood/lymph | 0.298 | 118.538 | 17.411 | 35.880 |
| SR | blood/lymph | 0.304 | 2.009 | 20.767 | 9.299 |
| SCI1 | blood/lymph | 0.323 | 3559.114 | 23.254 | 129.733 |
| ATN1 | blood/lymph | 0.342 | 2.783 | 6.219 | 2.427 |
| JJN3 | blood/lymph | 0.358 | 9.531 | 189.519 | 78.551 |
| NOMO1 | blood/lymph | 0.367 | 4.286 | 13.741 | 4.725 |
| MN60 | blood/lymph | 0.379 | 242.568 | 37.411 | 28.227 |
| BV173 | blood/lymph | 0.385 | 2.686 | 171.246 | 16.904 |
| ML2 | blood/lymph | 0.386 | 12.464 | 1.999 | 5.795 |
| OCIAML3 | blood/lymph | 0.394 | 7.274 | 8.069 | 2.138 |
| L1236 | blood/lymph | 0.395 | 3.133 | 16.137 | 17.078 |
| JVM3 | blood/lymph | 0.405 | 6.837 | 22.366 | 19.983 |
| KE37 | blood/lymph | 0.424 | 0.173 | 164.312 | 337.216 |
| VAL | blood/lymph | 0.448 | 241.688 | 14.824 | 33.459 |
| WIL2NS | blood/lymph | 0.461 | 36.669 | 31.636 | 23.199 |
| KOPN8 | blood/lymph | 0.473 | | 41.143 | 266.524 |
| ALLSIL | blood/lymph | 0.484 | | 6.723 | 4.755 |
| QIMRWIL | blood/lymph | 0.491 | 31.746 | 5.716 | 25.875 |
| K562 | blood/lymph | 0.499 | 53.881 | 135.178 | 773.969 |
| NB4 | blood/lymph | 0.510 | 18.251 | 4.907 | 2.490 |
| CESS | blood/lymph | 0.525 | 59.284 | 3.623 | 8.225 |
| BL41 | blood/lymph | 0.544 | 3.454 | 22.007 | 70.892 |
| P32ISH | blood/lymph | 0.544 | 8.026 | 6.395 | 9.086 |
| CMLT1 | blood/lymph | 0.584 | 130.211 | 152.273 | 942.283 |
| PL21 | blood/lymph | 0.653 | 1.083 | 7.241 | 2.389 |
| KARPAS45 | blood/lymph | 0.685 | 2.175 | 1.906 | 23.922 |
| NALM6 | blood/lymph | 0.691 | 2.052 | 3.270 | 3.536 |
| JSC1 | blood/lymph | 0.695 | 13.649 | 246.620 | 189.798 |
| SKM1 | blood/lymph | 0.722 | 1.453 | 1.928 | 1.776 |
| EJM | blood/lymph | 0.753 | 33.121 | 23.746 | 111.305 |
| NAMALWA | blood/lymph | 0.757 | 63.992 | 15.219 | 7.873 |
| TK | blood/lymph | 0.757 | 29.973 | 20.978 | 63.742 |
| KARPAS231 | blood/lymph | 0.763 | 1.616 | 3.168 | 11.618 |
| CMK | blood/lymph | 0.768 | 105.408 | 68.138 | 42.115 |
| CTV1 | blood/lymph | 0.771 | 2.899 | 18.493 | 22.438 |
| KMH2 | blood/lymph | 0.802 | 23.928 | 41.132 | 64.305 |
| KARPAS299 | blood/lymph | 0.820 | 57.146 | 83.847 | 165.436 |
| JURLMK1 | blood/lymph | 0.827 | 6.538 | 90.881 | 202.677 |
| LC41 | blood/lymph | 0.835 | 191.636 | 52.465 | 171.039 |
| MC116 | blood/lymph | 0.851 | 892.108 | 20.367 | 86.809 |
| HT | blood/lymph | 0.852 | 1.174 | 6.688 | 23.004 |

| | | | | | |
|-------------|-------------|--------|----------|---------|----------|
| SUPHD1 | blood/lymph | 0.885 | 5.543 | 31.992 | 73.944 |
| SUDHL4 | blood/lymph | 0.893 | 0.238 | 1.012 | 458.613 |
| DND41 | blood/lymph | 0.912 | 40.063 | 24.543 | 87.633 |
| SUDHL8 | blood/lymph | 0.918 | 70.804 | 64.530 | 270.072 |
| OCILY19 | blood/lymph | 0.962 | 18.448 | 13.133 | 37.825 |
| HEL | blood/lymph | 1.023 | 1370.458 | 306.918 | 600.188 |
| P31FUJ | blood/lymph | 1.100 | 3.207 | 184.763 | 16.751 |
| CTB1 | blood/lymph | 1.134 | 11.693 | 16.675 | 307.773 |
| RS411 | blood/lymph | 1.173 | 2.501 | 34.067 | 98.665 |
| IM9 | blood/lymph | 1.184 | 1064.479 | 348.479 | 159.194 |
| KARPAS1106P | blood/lymph | 1.193 | 5.811 | 15.941 | 315.771 |
| OCIM1 | blood/lymph | 1.259 | 450.151 | 222.589 | 847.650 |
| SET2 | blood/lymph | 1.359 | 36.027 | 158.881 | 35.886 |
| ST486 | blood/lymph | 1.365 | 112.482 | 225.841 | 1748.013 |
| LP1 | blood/lymph | 1.432 | 16.174 | 114.760 | 289.315 |
| OPM2 | blood/lymph | 1.621 | 2.499 | 139.191 | 387.894 |
| OCIAML5 | blood/lymph | 1.705 | 386.588 | 5.672 | 2.437 |
| RL | blood/lymph | 2.182 | 12.663 | 4.445 | 37.120 |
| RPMI6666 | blood/lymph | 2.216 | 4.096 | 10.551 | 14.758 |
| L428 | blood/lymph | 2.298 | 1592.791 | 133.557 | 408.307 |
| JM1 | blood/lymph | 2.418 | 79.891 | 35.655 | 46.144 |
| SUPB8 | blood/lymph | 2.596 | 15.504 | 91.747 | 960.551 |
| GRANTA519 | blood/lymph | 2.801 | 30.580 | 114.589 | 54.760 |
| SUDHL10 | blood/lymph | 2.805 | 0.395 | 12.216 | 23.354 |
| U266 | blood/lymph | 3.330 | | 40.322 | 348.119 |
| P121CHIKAWA | blood/lymph | 3.347 | 18.252 | 149.770 | 83.434 |
| MLMA | blood/lymph | 3.730 | 58.228 | 7.291 | 3.691 |
| EB2 | blood/lymph | 3.885 | 53.938 | 31.059 | 70.204 |
| PF382 | blood/lymph | 4.301 | 4.856 | 170.133 | 111.204 |
| YT | blood/lymph | 4.548 | 53.347 | 136.455 | 709.283 |
| SLVL | blood/lymph | 4.966 | 59.456 | 36.874 | 61.930 |
| LAMA84 | blood/lymph | 4.968 | 190.251 | 60.663 | 580.681 |
| KARPAS422 | blood/lymph | 5.090 | 2.809 | 1.839 | 25.690 |
| BALL1 | blood/lymph | 5.440 | 74.328 | 51.484 | 634.828 |
| HS445 | blood/lymph | 6.722 | | 5.603 | 1.818 |
| NUDUL1 | blood/lymph | 7.095 | 0.355 | 17.071 | 37.439 |
| HDLM2 | blood/lymph | 7.185 | 34.375 | 73.058 | 165.795 |
| MOT | blood/lymph | 7.226 | 7.381 | 32.218 | 47.028 |
| EHEB | blood/lymph | 7.494 | 2.206 | 0.350 | 27.656 |
| ME1 | blood/lymph | 7.599 | 2814.551 | 191.303 | 1974.787 |
| SUPT1 | blood/lymph | 8.984 | 5.558 | 364.567 | 294.388 |
| ALLPO | blood/lymph | 9.273 | 1.611 | 50.405 | 147.828 |
| THP1 | blood/lymph | 10.825 | 22.681 | 16.738 | 25.681 |
| HL60 | blood/lymph | 23.531 | 8.015 | 31.594 | 47.828 |
| MHHCALL2 | blood/lymph | 27.819 | 169.518 | 133.014 | 739.901 |
| ROS50 | blood/lymph | 43.499 | 590.362 | 118.654 | 443.063 |
| KY821 | blood/lymph | 43.582 | 13.022 | 12.869 | 18.201 |

| | | | | | |
|-----------------|-------------|----------|----------|---------|----------|
| RCK8 | blood/lymph | 261.043 | 1901.977 | 139.477 | 474.596 |
| WSUDLCL2 | blood/lymph | 536.807 | 0.003 | 37.875 | 781.327 |
| FARAGE | blood/lymph | 1044.822 | 0.839 | 286.282 | 1128.638 |
| MG63 | bone | 0.088 | 3.974 | 0.840 | 8.225 |
| CHSA0108 | bone | 0.112 | 9.827 | 5.345 | 7.539 |
| ES7 | bone | 0.123 | 16.606 | 0.445 | 6.472 |
| EW7 | bone | 0.179 | 5.481 | 5.263 | 0.717 |
| ES1 | bone | 0.221 | 11.119 | 30.662 | 3.972 |
| CAL72 | bone | 0.279 | 99.802 | 85.533 | 65.185 |
| SKES1 | bone | 0.285 | 5.283 | 28.108 | 8.026 |
| EW3 | bone | 0.293 | 12.910 | 5.933 | 2.196 |
| ES5 | bone | 0.299 | 8.125 | 6.572 | 2.859 |
| TC71 | bone | 0.322 | 58.647 | 11.373 | 2.391 |
| ES8 | bone | 0.328 | 13.028 | 15.631 | 7.103 |
| ES3 | bone | 0.365 | | 11.516 | 5.899 |
| SKPNDW | bone | 0.378 | | 21.681 | 52.993 |
| MHHES1 | bone | 0.380 | 46.221 | 17.105 | 12.150 |
| CHSA0011 | bone | 0.491 | | 5.802 | 24.713 |
| EW13 | bone | 0.536 | 5.342 | 98.001 | 66.402 |
| EW18 | bone | 0.543 | 0.334 | 10.650 | 7.302 |
| EW1 | bone | 0.546 | 465.618 | 37.839 | 13.638 |
| G292CLONEA141B1 | bone | 0.562 | | 3.741 | 2.750 |
| U2OS | bone | 0.579 | 7.759 | 11.282 | 10.524 |
| ES4 | bone | 0.723 | 19.587 | 8.805 | 1.977 |
| EW22 | bone | 0.732 | 28.268 | 12.877 | 17.031 |
| HUO9 | bone | 0.786 | 6.229 | 2.681 | 1.786 |
| EW24 | bone | 0.945 | 121.826 | 86.182 | 7.522 |
| HOS | bone | 0.985 | 2.734 | 37.474 | 13.257 |
| CHSA8926 | bone | 1.110 | 235.426 | 3.746 | 22.274 |
| ES6 | bone | 1.113 | 55.696 | 120.021 | 40.917 |
| SARC9371 | bone | 1.245 | 14.636 | 14.397 | 40.393 |
| CS1 | bone | 1.607 | 9.220 | 245.358 | 70.119 |
| CADOES1 | bone | 1.656 | 837.943 | 166.503 | 348.356 |
| SJSA1 | bone | 1.804 | 30.770 | 22.079 | 35.156 |
| NOS1 | bone | 1.907 | 103.782 | 26.512 | 5.402 |
| NY | bone | 3.787 | 46.740 | 315.298 | 41.071 |
| SAOS2 | bone | 5.105 | 36.803 | 10.616 | 17.085 |
| CAL78 | bone | 6.944 | 384.381 | 69.640 | 139.028 |
| HUO3N1 | bone | 11.092 | 21.160 | 9.123 | 19.038 |
| EW11 | bone | 521.615 | 6.617 | 29.999 | 1280.143 |
| SF295 | brain | 0.175 | 3.897 | 9.591 | 42.371 |
| D283MED | brain | 0.176 | 52.141 | 46.169 | 41.886 |
| T98G | brain | 0.200 | 17.652 | 2.341 | 5.329 |
| D263MG | brain | 0.203 | 63.524 | 4.385 | 12.206 |
| GII | brain | 0.207 | 2.145 | 6.222 | 10.270 |
| DAOY | brain | 0.219 | 24.768 | 51.606 | 23.587 |
| H4 | brain | 0.232 | 1.042 | 2.293 | 9.882 |

| | | | | | |
|-----------|-------|-------|---------|---------|----------|
| GMS10 | brain | 0.268 | 19.764 | 3.119 | 8.613 |
| GAMG | brain | 0.334 | 1.971 | 1.213 | 8.163 |
| SKMG1 | brain | 0.431 | 7.137 | 3.317 | 4.608 |
| SW1088 | brain | 0.445 | 2.207 | 1.166 | 48.659 |
| MOGGUVW | brain | 0.450 | 5.948 | 6.409 | 27.190 |
| SF126 | brain | 0.457 | 12.893 | 22.098 | 9.535 |
| KNS42 | brain | 0.474 | 96.734 | 131.150 | 75.469 |
| KNS81FD | brain | 0.479 | 11.435 | 11.521 | 72.281 |
| MOGGCCM | brain | 0.481 | 10.979 | 3.404 | 55.769 |
| BECKER | brain | 0.487 | 5.976 | 3.383 | 10.842 |
| ONS76 | brain | 0.505 | 26.471 | 89.477 | 105.283 |
| CCFSTTG1 | brain | 0.520 | 34.146 | 13.821 | 21.951 |
| D566MG | brain | 0.557 | 2.920 | 4.570 | 27.457 |
| PFSK1 | brain | 0.561 | | 28.275 | 15.552 |
| 8MGBA | brain | 0.578 | 6.760 | 6.012 | 9.249 |
| LN405 | brain | 0.644 | | 3.692 | 74.054 |
| 42MGBA | brain | 0.660 | 1.564 | 4.103 | 5.778 |
| D423MG | brain | 0.719 | 19.949 | 4.688 | 13.730 |
| SNB75 | brain | 0.748 | 32.766 | 2.585 | 4.138 |
| YKG1 | brain | 0.819 | 5.338 | 17.284 | 23.132 |
| SF539 | brain | 0.888 | 3.296 | 29.369 | 28.829 |
| U251 | brain | 0.936 | 13.719 | 189.285 | 81.603 |
| LN18 | brain | 1.000 | 97.010 | 0.805 | 196.851 |
| YH13 | brain | 1.042 | 2.222 | 1.847 | 10.861 |
| LNZTA3WT4 | brain | 1.046 | 51.291 | 72.752 | 20.929 |
| KALS1 | brain | 1.169 | 13.233 | 1.726 | 86.755 |
| KS1 | brain | 1.181 | 21.500 | 4.436 | 10.921 |
| A172 | brain | 1.188 | 83.319 | 22.948 | 310.315 |
| SW1783 | brain | 1.193 | 43.450 | 9.266 | 161.772 |
| DBTRG05MG | brain | 1.311 | 74.007 | 10.715 | 13.188 |
| LN229 | brain | 1.347 | 53.206 | 38.769 | 31.438 |
| GB1 | brain | 1.405 | 14.801 | 28.637 | 15.997 |
| CAS1 | brain | 1.541 | 15.143 | 12.546 | 202.522 |
| SF268 | brain | 1.728 | 61.781 | 15.787 | 61.087 |
| M059J | brain | 1.736 | 8.208 | 13.795 | 109.112 |
| D392MG | brain | 1.910 | 28.369 | 40.602 | 56.878 |
| NMCG1 | brain | 2.045 | 191.437 | 43.983 | 12.684 |
| D542MG | brain | 2.084 | 47.953 | 10.546 | 64.499 |
| D502MG | brain | 2.287 | 133.156 | 3.267 | 12.577 |
| NO10 | brain | 2.700 | 54.143 | 10.385 | 228.901 |
| DKMG | brain | 2.770 | 9.356 | 23.560 | 162.357 |
| D247MG | brain | 2.927 | 121.580 | 12.748 | 43.250 |
| KINGS1 | brain | 3.043 | 16.687 | 50.345 | 31.262 |
| D336MG | brain | 4.039 | 3.777 | 2.351 | 8.594 |
| HS683 | brain | 4.457 | 33.037 | 9.870 | 147.811 |
| NO11 | brain | 4.725 | 240.715 | 5.222 | 67.832 |
| AM38 | brain | 7.091 | 65.013 | 247.767 | 1251.152 |

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|-------------|--------|--------|----------|---------|---------|
| U118MG | brain | 12.308 | 10.091 | 41.053 | 17.532 |
| U87MG | brain | 14.772 | 21.068 | 15.726 | 29.325 |
| HCC1500 | breast | 0.109 | 355.730 | 144.857 | 637.185 |
| MRKNU1 | breast | 0.114 | 368.298 | 158.508 | 897.907 |
| OCUBM | breast | 0.187 | 0.094 | 18.953 | 1.079 |
| CAL120 | breast | 0.223 | 8.381 | 10.650 | 10.226 |
| EVSAT | breast | 0.225 | 0.147 | 0.018 | 7.855 |
| MFM223 | breast | 0.255 | 0.949 | 59.808 | 4.409 |
| CAL51 | breast | 0.280 | 0.762 | 46.293 | 255.380 |
| BT549 | breast | 0.379 | 7.902 | 1.054 | 59.864 |
| JIMT1 | breast | 0.397 | 4.020 | 7.305 | 2.316 |
| MDAMB330 | breast | 0.408 | | 14.624 | 0.888 |
| MCF7 | breast | 0.500 | 3.189 | 3.629 | 4.459 |
| HCC1143 | breast | 0.576 | 156.047 | 75.746 | 13.869 |
| MB157 | breast | 0.658 | | 12.850 | 13.775 |
| DU4475 | breast | 0.730 | 8.312 | 80.189 | 36.344 |
| HCC1395 | breast | 0.954 | 66.271 | 2.749 | 45.814 |
| HS578T | breast | 0.978 | 5.228 | 6.452 | 53.923 |
| EFM192A | breast | 1.002 | 0.939 | 14.228 | 5.288 |
| HCC2157 | breast | 1.111 | 0.071 | 2.689 | 30.581 |
| HCC1806 | breast | 1.129 | 103.984 | 291.343 | 52.769 |
| MDAMB361 | breast | 1.240 | 0.725 | 6.480 | 1.066 |
| MDAMB453 | breast | 1.263 | | 12.820 | 0.830 |
| MDAMB468 | breast | 1.328 | 31.029 | 9.925 | 320.560 |
| MDAMB231 | breast | 1.359 | 67.541 | 8.663 | 28.544 |
| UACC893 | breast | 1.583 | 0.152 | 92.878 | 4.416 |
| EFM19 | breast | 1.615 | 2.849 | 3.561 | 2.857 |
| HCC1599 | breast | 1.735 | | 0.483 | 5.488 |
| HCC70 | breast | 1.754 | 2.637 | 0.251 | 47.609 |
| MDAMB436 | breast | 1.859 | 106.943 | 1.530 | 108.859 |
| MDAMB415 | breast | 1.964 | | 0.428 | 30.702 |
| HCC1954 | breast | 1.991 | 0.743 | 71.447 | 3.856 |
| BT20 | breast | 2.217 | 5.614 | 33.123 | 2.907 |
| CAL851 | breast | 2.294 | 1383.848 | 8.880 | 48.352 |
| CAMA1 | breast | 2.392 | 1.165 | 9.955 | 897.853 |
| AU565 | breast | 2.437 | 2.893 | 13.665 | 12.465 |
| HCC2218 | breast | 3.052 | 47.220 | 14.464 | 44.690 |
| MDAMB175VII | breast | 3.066 | 0.670 | 128.237 | 9.968 |
| HCC1187 | breast | 3.156 | 11.683 | 11.297 | 22.816 |
| HCC202 | breast | 3.789 | 207.347 | 12.899 | 2.975 |
| T47D | breast | 3.962 | 11.446 | 7.513 | 11.670 |
| HCC1419 | breast | 4.064 | 1.868 | 90.223 | 21.284 |
| HCC1428 | breast | 4.089 | 4884.748 | 158.278 | 171.722 |
| COLO824 | breast | 4.186 | | 8.174 | 10.366 |
| HCC1937 | breast | 4.189 | 95.438 | 16.226 | 243.376 |
| HCC38 | breast | 4.193 | 113.651 | 37.035 | 96.548 |
| BT483 | breast | 4.283 | 899.749 | 47.819 | 70.888 |

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|------------|--------|--------|----------|---------|---------|
| HDQP1 | breast | 5.089 | 72.459 | 9.370 | 117.643 |
| BT474 | breast | 5.228 | 8.653 | 10.565 | 5.049 |
| MDAMB157 | breast | 5.287 | 330.773 | 136.583 | 259.222 |
| HCC1569 | breast | 5.664 | 2.599 | 17.641 | 24.495 |
| ZR7530 | breast | 28.829 | 133.451 | 46.311 | 55.154 |
| ME180 | cervix | 0.171 | 0.076 | 20.071 | 1.898 |
| SISO | cervix | 0.254 | 134.761 | 16.642 | 9.986 |
| TCYIK | cervix | 0.392 | 144.961 | 22.311 | 39.887 |
| CASKI | cervix | 0.399 | 10.530 | 5.406 | 4.151 |
| C33A | cervix | 0.508 | 10.462 | 46.516 | 21.513 |
| OMC1 | cervix | 0.855 | 7.152 | 119.919 | 2.828 |
| SKGIII A | cervix | 1.234 | 80.096 | 10.730 | 35.581 |
| HELA | cervix | 1.364 | 376.344 | 18.735 | 30.521 |
| MS751 | cervix | 1.419 | 1447.653 | 6.581 | 38.156 |
| SIHA | cervix | 1.770 | | 34.139 | 212.563 |
| HT3 | cervix | 1.967 | 715.676 | 14.037 | 13.978 |
| BOKU | cervix | 2.444 | 127.720 | 17.210 | 22.261 |
| C4I | cervix | 6.997 | 98.965 | 8.787 | 80.485 |
| SW756 | cervix | 13.053 | 819.465 | 11.166 | 55.796 |
| DOTC24510 | cervix | 14.058 | 85.127 | 78.461 | 9.790 |
| CL40 | colon | 0.118 | 6.819 | 4.054 | 1.034 |
| MDST8 | colon | 0.132 | 13.133 | 10.601 | 9.118 |
| SNUC1 | colon | 0.275 | 1.190 | 10.992 | 8.587 |
| COLO741 | colon | 0.400 | 7.154 | 28.931 | 66.592 |
| H716 | colon | 0.430 | 2.933 | 1.786 | 7.184 |
| LOVO | colon | 0.503 | | 0.065 | 6.400 |
| SW48 | colon | 0.518 | 8.455 | 5.723 | 1.817 |
| COLO320HSR | colon | 0.532 | 62.329 | 36.945 | 7.594 |
| HCT116 | colon | 0.545 | 10.697 | 5.695 | 7.968 |
| HCT15 | colon | 0.560 | 44.504 | 131.186 | 10.210 |
| SW620 | colon | 0.657 | 237.074 | 30.449 | 64.159 |
| RKO | colon | 0.661 | 6.829 | 37.199 | 5.323 |
| COLO205 | colon | 0.752 | 13.054 | 22.974 | 12.571 |
| SNU81 | colon | 0.826 | 20.085 | 1.415 | 12.534 |
| LS180 | colon | 0.966 | 163.176 | 115.085 | 6.886 |
| HT115 | colon | 1.021 | 487.294 | 115.377 | 17.788 |
| SKCO1 | colon | 1.041 | 80.431 | 16.863 | 3.126 |
| OUMS23 | colon | 1.078 | 25.088 | 16.952 | 142.352 |
| H508 | colon | 1.136 | 0.466 | 34.812 | 16.893 |
| LS513 | colon | 1.369 | 5.766 | 67.342 | 16.122 |
| CL11 | colon | 1.452 | 160.919 | 17.182 | 65.741 |
| H747 | colon | 1.464 | 22.827 | 7.324 | 8.783 |
| LS1034 | colon | 1.781 | 107.618 | 66.233 | 47.594 |
| SNUC2B | colon | 1.795 | 86.028 | 15.350 | 38.460 |
| H630 | colon | 1.798 | 3038.885 | 67.000 | 23.883 |
| SNU407 | colon | 1.847 | 14.270 | 86.038 | 4.308 |
| LIM1215 | colon | 2.155 | 179.101 | 53.758 | 40.344 |

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|-----------|--------|---------|----------|---------|---------|
| SNUC5 | colon | 2.331 | 2856.373 | 22.873 | 6.824 |
| HUTU80 | colon | 2.400 | 31.032 | 98.716 | 168.551 |
| HCC2998 | colon | 2.570 | 5.177 | 77.236 | 134.160 |
| CL34 | colon | 3.008 | 1810.434 | 33.390 | 10.141 |
| LS411N | colon | 3.056 | 16.504 | 180.144 | 173.774 |
| SW403 | colon | 3.199 | 22.296 | 47.500 | 17.774 |
| DIFI | colon | 3.625 | 5.750 | 86.555 | 7.068 |
| CAR1 | colon | 3.968 | 28.978 | 17.245 | 45.082 |
| SW837 | colon | 4.043 | 1986.328 | 25.572 | 41.623 |
| C2BBE1 | colon | 5.200 | 60.224 | 30.545 | 148.013 |
| SW1463 | colon | 6.040 | 4529.840 | 85.522 | 24.885 |
| LS123 | colon | 6.912 | 87.966 | 5.969 | 46.005 |
| GP5D | colon | 7.027 | 12.303 | 77.543 | 4.199 |
| HCC56 | colon | 9.894 | 260.639 | 101.664 | 28.478 |
| HT55 | colon | 9.998 | 223.479 | 57.261 | 24.445 |
| T84 | colon | 15.906 | 325.409 | 55.799 | 9.895 |
| SW948 | colon | 17.024 | 426.963 | 72.949 | 11.436 |
| SW1116 | colon | 18.928 | 165.317 | 61.790 | 99.742 |
| CW2 | colon | 19.934 | 451.399 | 156.895 | 37.513 |
| COLO678 | colon | 24.818 | 207.197 | 110.572 | 89.376 |
| HT29 | colon | 29.396 | 157.593 | 23.929 | 14.426 |
| KM12 | colon | 30.142 | 8.848 | 159.505 | 834.476 |
| SNU1040 | colon | 32.145 | | 264.825 | 378.921 |
| CCK81 | colon | 59.719 | 79.800 | 198.314 | 14.703 |
| RCM1 | colon | 106.735 | 33.822 | 92.834 | 33.955 |
| SNU61 | colon | 111.320 | 238.730 | 178.515 | 168.259 |
| SW1417 | colon | 113.035 | 87.742 | 36.179 | 143.245 |
| U031 | kidney | 0.058 | 7.496 | 0.342 | 4.504 |
| HA7RCC | kidney | 0.091 | 116.964 | 1.498 | 6.838 |
| G401 | kidney | 0.110 | 50.791 | 3.135 | 2.314 |
| LB1047RCC | kidney | 0.156 | 9.307 | 6.787 | 2.327 |
| RCCMF | kidney | 0.195 | 22.754 | 3.544 | 7.665 |
| LB2241RCC | kidney | 0.201 | 16.107 | 0.791 | 3.296 |
| LB996RCC | kidney | 0.214 | 0.887 | 0.874 | 4.656 |
| SKNEP1 | kidney | 0.225 | 8.953 | 5.009 | 4.420 |
| BB65RCC | kidney | 0.268 | 155.082 | 5.713 | 10.666 |
| RCCFG2 | kidney | 0.269 | 2.037 | 0.051 | 20.361 |
| A498 | kidney | 0.271 | 5.736 | 0.124 | 370.017 |
| SW13 | kidney | 0.288 | 23.204 | 21.496 | 56.125 |
| RCCJF | kidney | 0.308 | 2.590 | 0.252 | 9.882 |
| RCCJW | kidney | 0.326 | 13.619 | 1.218 | 7.302 |
| ACHN | kidney | 0.330 | 27.590 | 1.824 | 11.369 |
| TK10 | kidney | 0.386 | 23.804 | 4.051 | 10.953 |
| 769P | kidney | 0.448 | | 1.835 | 39.014 |
| BFTC909 | kidney | 0.463 | 3.826 | 10.184 | 6.749 |
| RCCAB | kidney | 0.465 | 134.204 | 30.956 | 31.059 |
| OSRC2 | kidney | 0.506 | 55.635 | 0.695 | 134.974 |

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|------------|--------|-------|----------|---------|---------|
| KMRC1 | kidney | 0.545 | 3.050 | 1.215 | 516.200 |
| SN12C | kidney | 0.545 | 34.542 | 8.811 | 24.350 |
| CAL54 | kidney | 0.588 | 48.939 | 0.484 | 7.182 |
| CAK11 | kidney | 0.677 | 9.784 | 1.143 | 46.547 |
| RCCER | kidney | 0.680 | 215.072 | 10.221 | 9.578 |
| VMRCRCZ | kidney | 0.701 | 16.635 | 5.595 | 12.666 |
| 7860 | kidney | 0.763 | 3402.178 | 7.324 | 353.770 |
| NCC010 | kidney | 1.274 | 633.466 | 4.843 | 16.949 |
| KMRC20 | kidney | 1.476 | 55.379 | 567.976 | 42.989 |
| RXF393 | kidney | 1.521 | 5.868 | 1.001 | 43.659 |
| SW156 | kidney | 1.769 | 3.781 | 16.670 | 40.753 |
| RCC10RGB | kidney | 2.088 | 407.085 | 8.437 | 19.510 |
| NCC021 | kidney | 3.284 | 14.875 | 0.171 | 17.062 |
| A704 | kidney | 4.306 | | 11.110 | 17.321 |
| HUH7 | liver | 0.062 | 21.313 | 15.037 | 8.655 |
| HEP3B217 | liver | 0.150 | 2.359 | 25.930 | 9.373 |
| JHH1 | liver | 0.152 | 1159.130 | 2.374 | 3.811 |
| HLE | liver | 0.155 | 107.089 | 16.205 | 58.107 |
| JHH6 | liver | 0.208 | 12.051 | 10.221 | 15.922 |
| HUH1 | liver | 0.272 | 16.712 | 107.873 | 16.980 |
| SKHEP1 | liver | 0.298 | 113.445 | 8.740 | 31.288 |
| JHH2 | liver | 0.325 | 7.424 | 0.211 | 8.852 |
| JHH4 | liver | 0.331 | 1128.539 | 6.027 | 13.332 |
| SNU423 | liver | 0.446 | 21.661 | 5.593 | 29.616 |
| JHH7 | liver | 0.451 | 25.027 | 40.211 | 25.590 |
| SNU398 | liver | 0.486 | | 289.834 | 194.169 |
| SNU182 | liver | 0.556 | 8.317 | 5.156 | 13.161 |
| SNU387 | liver | 0.679 | 213.298 | 6.300 | 6.132 |
| SNU449 | liver | 0.806 | 1172.743 | 13.612 | 11.304 |
| HUH6CLONE5 | liver | 0.870 | 50.175 | 139.325 | 12.285 |
| C3A | liver | 4.293 | 69.418 | 96.879 | 297.299 |
| H292 | lung | 0.013 | 3.222 | 1.305 | 1.960 |
| H1417 | lung | 0.048 | 0.994 | 1.350 | 0.392 |
| LU99A | lung | 0.052 | 15.200 | 13.771 | 5.084 |
| LXF289 | lung | 0.078 | 3.616 | 1.153 | 17.143 |
| SKMES1 | lung | 0.084 | 432.708 | 0.611 | 3.083 |
| H1793 | lung | 0.111 | 35.289 | 15.336 | 83.543 |
| H1355 | lung | 0.119 | 111.465 | 8.551 | 16.096 |
| HCC44 | lung | 0.120 | 1.080 | 1.288 | 9.761 |
| H2030 | lung | 0.127 | 18.632 | 3.452 | 11.541 |
| EBC1 | lung | 0.134 | 5.193 | 0.326 | 96.107 |
| CORL32 | lung | 0.138 | | 9.790 | 4.386 |
| A549 | lung | 0.150 | 28.624 | 2.428 | 8.309 |
| SBC1 | lung | 0.160 | 6.105 | 2.350 | 4.416 |
| H2122 | lung | 0.166 | 400.830 | 57.315 | 12.984 |
| H1993 | lung | 0.171 | 33.242 | 44.230 | 63.978 |
| H1944 | lung | 0.175 | 59.496 | 2.275 | 2.028 |

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|----------|------|-------|----------|---------|---------|
| H446 | lung | 0.176 | 1.746 | 0.239 | 12.752 |
| MSTO211H | lung | 0.180 | 950.608 | 9.138 | 20.570 |
| H2452 | lung | 0.184 | 26.572 | 4.757 | 35.990 |
| H647 | lung | 0.208 | 6.286 | 9.910 | 5.076 |
| H1975 | lung | 0.220 | 2.798 | 5.170 | 3.388 |
| H1299 | lung | 0.228 | 75.436 | 1.061 | 26.008 |
| H1648 | lung | 0.228 | 14.638 | 34.061 | 6.338 |
| H838 | lung | 0.239 | | 7.805 | 10.076 |
| H2023 | lung | 0.257 | 48.894 | 2.235 | 8.271 |
| H1666 | lung | 0.258 | 61.316 | 2.102 | 4.520 |
| HCC15 | lung | 0.259 | 28.812 | 19.363 | 32.745 |
| H2373 | lung | 0.269 | 2.710 | 7.657 | 12.376 |
| H290 | lung | 0.280 | 61.965 | 32.179 | 67.688 |
| H2347 | lung | 0.292 | 107.647 | 19.818 | 61.638 |
| H524 | lung | 0.325 | 72.699 | 36.039 | 35.773 |
| SBC3 | lung | 0.326 | 212.661 | 34.152 | 43.134 |
| KNS62 | lung | 0.330 | 145.768 | 24.647 | 569.254 |
| H2405 | lung | 0.340 | 110.180 | 8.299 | 59.701 |
| H1341 | lung | 0.345 | 10.594 | 2.588 | 1.116 |
| DMS114 | lung | 0.353 | 23.325 | 24.102 | 6.386 |
| H1876 | lung | 0.355 | 30.165 | 15.696 | 38.780 |
| H2461 | lung | 0.359 | 285.055 | 10.370 | 8.018 |
| LK2 | lung | 0.361 | 135.396 | 11.147 | 16.225 |
| H1568 | lung | 0.366 | 44.965 | 15.824 | 8.903 |
| H1581 | lung | 0.387 | 3329.126 | 91.833 | 823.480 |
| CAL12T | lung | 0.399 | 119.600 | 10.326 | 16.190 |
| H2803 | lung | 0.399 | 84.014 | 43.244 | 109.149 |
| H2342 | lung | 0.410 | 284.243 | 6.668 | 20.285 |
| H28 | lung | 0.442 | 21.180 | 38.014 | 10.207 |
| H2591 | lung | 0.451 | 70.036 | 22.088 | 27.132 |
| H2228 | lung | 0.455 | | 9.208 | 11.480 |
| H460 | lung | 0.455 | 1.739 | 70.146 | 15.508 |
| H2369 | lung | 0.495 | 896.960 | 84.414 | 153.715 |
| LU139 | lung | 0.504 | 534.114 | 573.760 | 830.617 |
| H2126 | lung | 0.507 | 53.238 | 6.705 | 13.486 |
| PC14 | lung | 0.511 | 17.630 | 17.295 | 6.887 |
| SW1573 | lung | 0.522 | 0.827 | 7.017 | 4.792 |
| H661 | lung | 0.546 | 18.675 | 6.206 | 17.650 |
| H2170 | lung | 0.569 | 21.032 | 39.916 | 13.106 |
| H209 | lung | 0.601 | 294.933 | 199.551 | 114.974 |
| H2722 | lung | 0.609 | 40.235 | 36.160 | 127.895 |
| H69 | lung | 0.613 | 12.140 | 4.979 | 1.560 |
| SBC5 | lung | 0.639 | 8.641 | 40.487 | 17.640 |
| EPLC272H | lung | 0.645 | 4.702 | 4.385 | 5.222 |
| SKLU1 | lung | 0.647 | 64.542 | 57.705 | 74.556 |
| RERFLCMS | lung | 0.649 | 6.854 | 3.096 | 4.404 |
| H1048 | lung | 0.654 | 14.881 | 6.446 | 1.368 |

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|-----------|------|-------|----------|---------|---------|
| H82 | lung | 0.676 | 13.313 | 82.806 | 49.939 |
| H1755 | lung | 0.709 | 5.482 | 10.317 | 9.467 |
| MPP89 | lung | 0.730 | 40.553 | 10.440 | 140.560 |
| H847 | lung | 0.780 | 105.734 | 23.514 | 7.791 |
| H1792 | lung | 0.791 | 374.473 | 6.929 | 6.878 |
| H2818 | lung | 0.830 | 79.670 | 113.268 | 529.212 |
| H2085 | lung | 0.842 | 63.100 | 0.178 | 16.114 |
| H1437 | lung | 0.872 | 22.667 | 157.635 | 20.608 |
| H1155 | lung | 0.878 | 1.467 | 34.442 | 359.158 |
| H2110 | lung | 0.882 | 3.665 | 12.730 | 9.293 |
| CORL105 | lung | 0.882 | 34.755 | 13.125 | 360.438 |
| H1703 | lung | 0.903 | 12.944 | 3.916 | 3.823 |
| H2009 | lung | 0.905 | 23.380 | 34.911 | 13.832 |
| H2731 | lung | 0.914 | 57.284 | 92.960 | 20.839 |
| HCC78 | lung | 0.916 | | 1.065 | 3.022 |
| HOP92 | lung | 0.945 | 12.978 | 3.181 | 10.493 |
| HOP62 | lung | 0.958 | 44.963 | 91.603 | 70.952 |
| CPCN | lung | 0.976 | 71.026 | 6.793 | 18.863 |
| CALU3 | lung | 1.083 | 94.518 | 38.888 | 7.835 |
| H2795 | lung | 1.101 | 37.750 | 12.225 | 30.741 |
| LOUNH91 | lung | 1.104 | 21.646 | 11.619 | 5.673 |
| LCLC97TM1 | lung | 1.112 | 322.464 | 7.006 | 10.136 |
| RERFLCSQ1 | lung | 1.131 | 5.670 | 22.196 | 3.520 |
| H1781 | lung | 1.150 | 156.123 | 42.906 | 114.061 |
| H211 | lung | 1.175 | 2050.992 | 46.033 | 227.445 |
| UMC11 | lung | 1.221 | 720.399 | 44.805 | 613.683 |
| H1650 | lung | 1.262 | 103.254 | 6.612 | 27.365 |
| SW900 | lung | 1.305 | 227.897 | 19.175 | 14.102 |
| IALM | lung | 1.341 | 1589.562 | 64.215 | 45.266 |
| H841 | lung | 1.360 | 50.832 | 16.218 | 26.080 |
| LB647SCLC | lung | 1.393 | 66.869 | 34.018 | 49.707 |
| CORL23 | lung | 1.403 | 17.900 | 51.543 | 46.245 |
| DMS273 | lung | 1.436 | 0.554 | 10.769 | 402.953 |
| HARA | lung | 1.495 | 3.140 | 41.183 | 17.923 |
| CALU6 | lung | 1.525 | 410.833 | 101.239 | 42.773 |
| H358 | lung | 1.538 | 251.124 | 18.453 | 11.219 |
| H720 | lung | 1.569 | 0.285 | 25.709 | 3.844 |
| ABC1 | lung | 1.592 | 113.485 | 11.316 | 32.110 |
| H1623 | lung | 1.596 | 5.957 | 9.264 | 8.912 |
| H2286 | lung | 1.648 | 120.722 | 14.770 | 90.136 |
| H2869 | lung | 1.682 | 507.268 | 133.901 | 41.837 |
| CHAGOK1 | lung | 1.697 | 51.595 | 10.162 | 72.483 |
| H1770 | lung | 1.701 | 1.090 | 30.198 | 114.193 |
| ISTMES1 | lung | 1.751 | 254.907 | 215.773 | 43.771 |
| H1105 | lung | 1.827 | | 50.323 | 257.696 |
| H3255 | lung | 1.847 | 50.747 | 26.700 | 14.657 |
| H1915 | lung | 1.873 | 708.645 | 176.214 | 743.090 |

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|------------|------|-------|----------|---------|----------|
| H1869 | lung | 1.878 | 114.992 | 8.735 | 302.362 |
| H146 | lung | 1.936 | 2436.042 | 75.191 | 388.010 |
| ISTSL1 | lung | 1.953 | 45.183 | 69.450 | 542.472 |
| H1395 | lung | 2.037 | 7.420 | 18.369 | 174.671 |
| ISTSL2 | lung | 2.048 | 0.709 | 109.806 | 255.336 |
| H596 | lung | 2.063 | 48.939 | 8.040 | 12.735 |
| VMRCLCD | lung | 2.135 | 831.414 | 168.962 | 910.679 |
| H2595 | lung | 2.163 | 1223.866 | 20.412 | 68.506 |
| H1436 | lung | 2.256 | | 72.952 | 681.431 |
| H23 | lung | 2.312 | 31.129 | 95.446 | 25.265 |
| PC3_[JPC3] | lung | 2.325 | 12.653 | 48.289 | 25.786 |
| H3122 | lung | 2.329 | 40.339 | 156.017 | 77.912 |
| A427 | lung | 2.369 | 5.583 | 72.831 | 78.171 |
| BEN | lung | 2.374 | 43.482 | 205.846 | 311.809 |
| H513 | lung | 2.533 | 2752.922 | 17.635 | 55.160 |
| H2810 | lung | 2.540 | 13.613 | 25.922 | 26.540 |
| H650 | lung | 2.686 | 1923.377 | 203.761 | 21.587 |
| CORL88 | lung | 2.691 | 338.172 | 46.624 | 345.927 |
| HCC827 | lung | 2.817 | 99.357 | 197.560 | 9.320 |
| H522 | lung | 2.820 | 102.862 | 141.841 | 38.683 |
| MS1 | lung | 2.950 | 19.791 | 28.077 | 55.473 |
| H520 | lung | 2.980 | 23.807 | 6.064 | 250.932 |
| DMS53 | lung | 2.989 | 1396.449 | 335.385 | 934.649 |
| H2227 | lung | 3.058 | 271.099 | 20.327 | 121.939 |
| H2087 | lung | 3.123 | 5577.428 | 248.573 | 33.527 |
| SW1271 | lung | 3.125 | 126.390 | 216.540 | 115.486 |
| LC2AD | lung | 3.134 | 25.394 | 12.436 | 7.462 |
| SHP77 | lung | 3.389 | 2504.056 | 276.098 | 1186.503 |
| H810 | lung | 3.428 | 192.136 | 255.356 | 216.588 |
| H1651 | lung | 3.453 | 137.854 | 35.556 | 331.082 |
| LC1SQ | lung | 3.471 | 70.051 | 38.595 | 16.980 |
| H727 | lung | 3.488 | 213.013 | 204.561 | 126.123 |
| H820 | lung | 3.540 | | 1.437 | 33.710 |
| RERFLCKJ | lung | 3.848 | 115.550 | 13.772 | 59.356 |
| EKVX | lung | 4.317 | 71.292 | 2.497 | 10.761 |
| HCC366 | lung | 4.331 | 193.341 | 13.768 | 9.791 |
| H1694 | lung | 4.344 | 87.208 | 207.942 | 515.580 |
| H2804 | lung | 4.393 | 30.095 | 151.831 | 29.535 |
| SCLC21H | lung | 4.458 | 24.306 | 159.591 | 136.082 |
| H2444 | lung | 5.042 | 1243.096 | 34.610 | 94.975 |
| H226 | lung | 5.307 | 46.487 | 53.479 | 16.203 |
| H1573 | lung | 5.527 | 150.712 | 54.274 | 122.788 |
| LU134A | lung | 5.895 | 2.759 | 19.990 | 50.738 |
| CORL321 | lung | 6.186 | 166.936 | 41.387 | 204.219 |
| H835 | lung | 6.392 | 16.647 | 28.028 | 314.956 |
| LU165 | lung | 6.468 | 1805.954 | 235.679 | 268.050 |
| H2172 | lung | 6.678 | 43.590 | 123.083 | 72.455 |

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|----------|----------------------------------|----------|----------|---------|----------|
| H526 | lung | 7.644 | 4.261 | 203.012 | 1429.607 |
| H2291 | lung | 8.053 | 47.382 | 3.315 | 47.725 |
| COLO668 | lung | 8.334 | 4009.922 | 72.292 | 160.822 |
| H1836 | lung | 8.583 | 2913.254 | 48.478 | 173.584 |
| H1563 | lung | 8.757 | 31.480 | 15.325 | 17.832 |
| H196 | lung | 9.849 | 40.535 | 65.792 | 0.562 |
| H1838 | lung | 11.262 | 93.316 | 45.916 | 57.884 |
| LU135 | lung | 11.307 | 22.307 | 50.214 | 358.111 |
| H441 | lung | 13.888 | 399.513 | 19.986 | 82.222 |
| H1435 | lung | 17.112 | 257.573 | 32.437 | 880.310 |
| H2141 | lung | 17.888 | 464.325 | 191.785 | 208.226 |
| H2066 | lung | 19.206 | 23.460 | 2.648 | 29.202 |
| LCLC103H | lung | 20.266 | 13.524 | 250.653 | 434.091 |
| H1688 | lung | 22.262 | 19.152 | 24.722 | 122.591 |
| H1092 | lung | 27.766 | 177.128 | 166.704 | 299.255 |
| CORL95 | lung | 28.613 | 120.427 | 48.150 | 210.401 |
| H187 | lung | 31.080 | 14.182 | 40.743 | 175.879 |
| H322M | lung | 39.285 | 624.322 | 44.689 | 131.987 |
| H2029 | lung | 49.186 | 389.311 | 140.641 | 375.087 |
| H345 | lung | 57.048 | 431.806 | 43.532 | 217.119 |
| DMS79 | lung | 60.778 | 97.403 | 72.371 | 416.866 |
| LU65 | lung | 95.426 | 3633.243 | 52.513 | 125.434 |
| H2081 | lung | 111.971 | 319.279 | 173.821 | 1013.922 |
| H1304 | lung | 120.919 | 35.794 | 57.857 | 113.505 |
| H2135 | lung | 1728.529 | 3666.834 | 304.223 | 420.147 |
| STS0421 | muscle (not otherwise specified) | 0.232 | 11.185 | 6.576 | 12.576 |
| G402 | muscle (smooth) | 0.083 | 6.633 | 5.587 | 27.287 |
| SKLMS1 | muscle (smooth) | 0.212 | 10.774 | 1.130 | 6.246 |
| RKN | muscle (smooth) | 0.606 | 14.927 | 4.704 | 16.527 |
| A204 | muscle (striated) | 0.058 | 4.039 | 0.740 | 2.294 |
| RH41 | muscle (striated) | 0.165 | 0.631 | 26.651 | 3.419 |
| KYM1 | muscle (striated) | 0.260 | 1.729 | 10.460 | 16.805 |
| A673 | muscle (striated) | 0.689 | 27.712 | 44.849 | 7.006 |
| SJRH30 | muscle (striated) | 0.885 | 1.260 | 18.697 | 2.618 |
| RD | muscle (striated) | 1.123 | 239.412 | 17.892 | 4.662 |
| RH18 | muscle (striated) | 8.562 | 31.720 | 11.090 | 23.565 |
| NB69 | nervous system (PNS) | 0.045 | 55.410 | 2.992 | 5.413 |
| KELLY | nervous system (PNS) | 0.117 | 124.103 | 120.267 | 59.961 |
| NBSUSSR | nervous system (PNS) | 0.174 | 3.974 | 3.982 | 2.463 |
| NB12 | nervous system (PNS) | 0.263 | 12.458 | 1.656 | 41.283 |
| NB5 | nervous system (PNS) | 0.281 | 40.541 | 6.667 | 7.053 |
| GIMEN | nervous system (PNS) | 0.340 | 7.340 | 5.937 | 12.666 |
| CHP212 | nervous system (PNS) | 0.361 | 15.803 | 8.483 | 2.058 |
| NB7 | nervous system (PNS) | 0.455 | 15.062 | 5.059 | 12.847 |
| BE2M17 | nervous system (PNS) | 0.580 | 85.831 | 39.909 | 8.169 |
| SKNAS | nervous system (PNS) | 0.589 | 38.015 | 172.263 | 58.221 |
| ACN | nervous system (PNS) | 0.618 | 5.577 | 70.003 | 20.147 |

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|------------|----------------------|---------|----------|---------|----------|
| GOTO | nervous system (PNS) | 0.861 | 47.293 | 63.007 | 11.303 |
| TASK1 | nervous system (PNS) | 0.936 | 916.658 | 17.838 | 15.662 |
| NB10 | nervous system (PNS) | 1.136 | 114.170 | 27.812 | 7.615 |
| NB1 | nervous system (PNS) | 1.309 | 2.554 | 1.240 | 3.175 |
| CHP126 | nervous system (PNS) | 1.643 | 119.273 | 72.412 | 92.927 |
| NH12 | nervous system (PNS) | 1.732 | 95.432 | 15.789 | 10.889 |
| IMR5 | nervous system (PNS) | 1.794 | 363.153 | 68.915 | 112.372 |
| MCIXC | nervous system (PNS) | 1.888 | 21.435 | 123.369 | 27.211 |
| NB14 | nervous system (PNS) | 2.444 | 17.143 | 61.908 | 109.885 |
| SKNFI | nervous system (PNS) | 2.847 | | 79.656 | 16.110 |
| SKNSH | nervous system (PNS) | 3.071 | 19.433 | 40.275 | 5.938 |
| NB13 | nervous system (PNS) | 5.032 | 74.402 | 159.491 | 203.424 |
| TGW | nervous system (PNS) | 7.622 | 7.056 | 162.502 | 63.074 |
| SKNDZ | nervous system (PNS) | 10.563 | 48.837 | 91.690 | 290.391 |
| NB17 | nervous system (PNS) | 12.347 | 25.676 | 31.231 | 17.540 |
| SIMA | nervous system (PNS) | 22.881 | 74.902 | 95.863 | 29.258 |
| LAN6 | nervous system (PNS) | 33.276 | 43.796 | 88.186 | 46.054 |
| NBTU110 | nervous system (PNS) | 87.707 | 1850.568 | 395.865 | 1324.598 |
| NB6 | nervous system (PNS) | 113.303 | 238.561 | 203.392 | 24.402 |
| KPNYN | nervous system (PNS) | 252.797 | | 81.512 | 109.556 |
| KYAE1 | oesophagus | 0.119 | 0.134 | 2.103 | 1.272 |
| BB49HNC | oesophagus | 0.124 | 5.274 | 0.011 | 1.187 |
| OE21 | oesophagus | 0.135 | 3.898 | 17.988 | 3.870 |
| JHU029 | oesophagus | 0.139 | 49.285 | 5.596 | 1.332 |
| SKGT4 | oesophagus | 0.159 | 3.612 | 6.983 | 1.292 |
| LB771HNC | oesophagus | 0.184 | 2.567 | 11.375 | 6.288 |
| HCE4 | oesophagus | 0.199 | 99.485 | 1.523 | 8.824 |
| ECGI10 | oesophagus | 0.214 | 6.225 | 21.527 | 4.823 |
| PCI4B | oesophagus | 0.231 | 6.298 | 26.907 | 25.484 |
| TE5 | oesophagus | 0.232 | 50.988 | 18.280 | 4.459 |
| EMCBAC2 | oesophagus | 0.250 | 25.098 | 10.125 | 10.159 |
| JHU028 | oesophagus | 0.281 | 89.706 | 16.931 | 10.555 |
| JHU022 | oesophagus | 0.323 | 38.004 | 30.448 | 0.801 |
| KYSE180 | oesophagus | 0.325 | 13.442 | 30.608 | 12.309 |
| JHU011 | oesophagus | 0.327 | 31.859 | 141.442 | 9.234 |
| KYSE410 | oesophagus | 0.407 | 61.349 | 141.740 | 7.173 |
| KYSE510 | oesophagus | 0.415 | 39.617 | 5.726 | 6.319 |
| TE4 | oesophagus | 0.458 | 2.080 | 31.265 | 16.371 |
| FLO1 | oesophagus | 0.461 | 19.498 | 3.198 | 12.487 |
| KYSE450 | oesophagus | 0.500 | 26.398 | 9.605 | 4.985 |
| BB30HNC | oesophagus | 0.628 | 39.227 | 50.390 | 6.940 |
| DETROIT562 | oesophagus | 0.645 | 4.269 | 45.544 | 4.779 |
| TE9 | oesophagus | 0.711 | 21.073 | 32.740 | 8.802 |
| TT | oesophagus | 0.749 | 38.156 | 68.232 | 6.901 |
| TT | oesophagus | 0.749 | 38.156 | 68.232 | 6.901 |
| OACM51 | oesophagus | 0.790 | 26.141 | 17.994 | 90.795 |
| KYSE270 | oesophagus | 0.802 | 107.015 | 7.428 | 6.895 |

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|----------|-------------------|---------|---------|---------|---------|
| TE10 | oesophagus | 1.012 | 9.945 | 22.588 | 10.380 |
| ESO26 | oesophagus | 1.039 | 5.147 | 11.857 | 39.920 |
| EMCBAC1 | oesophagus | 1.080 | 106.186 | 29.983 | 47.830 |
| KYSE150 | oesophagus | 1.176 | 20.875 | 353.543 | 28.268 |
| TE11 | oesophagus | 1.256 | 28.772 | 62.686 | 5.912 |
| KYSE30 | oesophagus | 1.263 | 28.151 | 10.054 | 24.036 |
| OE33 | oesophagus | 1.331 | 854.433 | 38.447 | 60.446 |
| OACP4C | oesophagus | 1.449 | 3.996 | 16.191 | 2.895 |
| ESO51 | oesophagus | 1.514 | | 148.636 | 20.293 |
| KYSE140 | oesophagus | 1.561 | 1.369 | 144.534 | 113.321 |
| TE12 | oesophagus | 1.630 | 41.272 | 4.848 | 5.223 |
| TE8 | oesophagus | 1.749 | 6.011 | 18.582 | 5.813 |
| KYSE520 | oesophagus | 1.808 | 76.035 | 170.266 | 15.169 |
| A253 | oesophagus | 2.111 | 3.425 | 151.048 | 584.046 |
| KYSE220 | oesophagus | 2.478 | 4.435 | 27.891 | 4.048 |
| FADU | oesophagus | 2.559 | 17.730 | 20.550 | 19.370 |
| TE1 | oesophagus | 3.032 | 172.221 | 26.770 | 13.151 |
| KYSE70 | oesophagus | 3.189 | 21.687 | 56.894 | 14.363 |
| TE15 | oesophagus | 4.085 | 76.227 | 98.483 | 18.439 |
| TE6 | oesophagus | 4.891 | 102.469 | 41.421 | 33.856 |
| OE19 | oesophagus | 6.701 | 420.372 | 30.391 | 24.358 |
| COLO680N | oesophagus | 7.100 | 103.191 | 237.057 | 593.985 |
| SCC90 | oesophagus | 7.756 | 4.792 | 55.503 | 35.479 |
| UDSCC2 | oesophagus | 21.176 | 146.661 | 109.881 | 425.349 |
| KYSE50 | oesophagus | 184.049 | 95.888 | 111.348 | 250.102 |
| KON | oral/nasal cavity | 0.040 | 10.951 | 38.785 | 7.930 |
| HSC3 | oral/nasal cavity | 0.088 | 9.419 | 8.437 | 6.377 |
| BICR22 | oral/nasal cavity | 0.120 | 8.148 | 6.167 | 6.630 |
| DOK | oral/nasal cavity | 0.201 | 1.531 | 2.749 | 1.185 |
| SAT | oral/nasal cavity | 0.218 | 8.303 | 9.732 | 3.312 |
| HSC4 | oral/nasal cavity | 0.247 | 3.122 | 17.616 | 3.520 |
| PECAPJ15 | oral/nasal cavity | 0.255 | 55.918 | 14.673 | 5.940 |
| OSC20 | oral/nasal cavity | 0.261 | 2.474 | 10.633 | 10.734 |
| CA922 | oral/nasal cavity | 0.317 | 8.312 | 23.620 | 6.629 |
| HO1N1 | oral/nasal cavity | 0.338 | 5.954 | 9.431 | 6.799 |
| HO1U1 | oral/nasal cavity | 0.371 | 1.946 | 34.260 | 10.012 |
| CAL33 | oral/nasal cavity | 0.381 | 7.793 | 5.536 | 0.707 |
| BICR10 | oral/nasal cavity | 0.400 | 6.214 | 3.965 | 2.511 |
| BHY | oral/nasal cavity | 0.533 | 181.677 | 11.008 | 15.221 |
| OSC19 | oral/nasal cavity | 0.534 | 112.292 | 21.130 | 10.054 |
| JHU019 | oral/nasal cavity | 0.626 | 8.399 | 1.323 | 97.677 |
| HN | oral/nasal cavity | 0.654 | 2.028 | 27.331 | 7.896 |
| SCC15 | oral/nasal cavity | 0.663 | 230.263 | 3.328 | 4.350 |
| CAL27 | oral/nasal cavity | 0.732 | 21.484 | 5.000 | 3.434 |
| BICR78 | oral/nasal cavity | 0.745 | 38.732 | 5.969 | 4.805 |
| SAS | oral/nasal cavity | 0.786 | 43.511 | 90.462 | 30.164 |
| KOSC2 | oral/nasal cavity | 0.810 | 14.205 | 76.869 | 10.808 |

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|--------------|-------------------|--------|---------|---------|---------|
| PCI38 | oral/nasal cavity | 0.833 | 4.204 | 154.869 | 14.761 |
| RPMI2650 | oral/nasal cavity | 0.852 | 115.811 | 36.690 | 23.555 |
| SCC9 | oral/nasal cavity | 0.862 | 72.546 | 1.524 | 4.143 |
| H3118 | oral/nasal cavity | 1.189 | 46.545 | 6.133 | 3.451 |
| HSC2 | oral/nasal cavity | 1.284 | | 25.571 | 2.276 |
| SKN3 | oral/nasal cavity | 1.841 | 75.984 | 68.859 | 13.829 |
| SCC25 | oral/nasal cavity | 1.952 | 12.330 | 20.857 | 7.359 |
| PCI30 | oral/nasal cavity | 2.319 | 58.548 | 26.735 | 35.644 |
| PCI15A | oral/nasal cavity | 2.713 | 4.005 | 166.850 | 17.149 |
| SCC4 | oral/nasal cavity | 4.995 | 25.251 | 80.036 | 16.267 |
| PCI6A | oral/nasal cavity | 27.231 | 10.156 | 74.280 | 17.151 |
| KGN | ovary | 0.109 | 176.853 | 3.915 | 23.918 |
| OVCA420 | ovary | 0.119 | 99.890 | 2.233 | 1.925 |
| HEY | ovary | 0.129 | 16.500 | 158.102 | 8.615 |
| OAW42 | ovary | 0.152 | 36.879 | 1.898 | 0.837 |
| A2780 | ovary | 0.160 | 1.632 | 4.573 | 2.733 |
| TOV112D | ovary | 0.163 | 14.609 | 9.022 | 30.828 |
| IOSE7516SV40 | ovary | 0.217 | 9.031 | 43.841 | 213.832 |
| IGROV1 | ovary | 0.224 | 0.958 | 1.311 | 0.676 |
| TYKNU | ovary | 0.251 | 9.537 | 129.881 | 75.167 |
| TOV21G | ovary | 0.262 | 0.721 | 34.010 | 6.885 |
| OVCAR5 | ovary | 0.264 | 28.698 | 5.003 | 6.852 |
| OVCA433 | ovary | 0.271 | 43.286 | 5.542 | 5.739 |
| OVCAR4 | ovary | 0.349 | 656.836 | 24.009 | 59.160 |
| OC314 | ovary | 0.363 | 13.061 | 6.100 | 10.211 |
| OVK18 | ovary | 0.401 | 0.696 | 8.436 | 28.502 |
| OV7 | ovary | 0.409 | 9.274 | 0.820 | 15.219 |
| OVTOKO | ovary | 0.426 | 5.029 | 1.990 | 7.412 |
| IOSE364 | ovary | 0.434 | 4.823 | 46.061 | 49.446 |
| SKOV3 | ovary | 0.447 | 8.315 | 15.878 | 2.363 |
| OVCAR3 | ovary | 0.490 | 170.377 | 4.850 | 36.488 |
| DOV13 | ovary | 0.503 | 39.541 | 19.231 | 12.979 |
| JHOS2 | ovary | 0.569 | 65.460 | 2.788 | 3.221 |
| JHOS4 | ovary | 0.609 | 822.076 | 4.344 | 4.531 |
| OVMIU | ovary | 0.623 | 23.773 | 9.614 | 3.156 |
| OV90 | ovary | 0.632 | 21.138 | 15.284 | 39.037 |
| EFO27 | ovary | 0.644 | 0.143 | 1.167 | 2.878 |
| PEO1 | ovary | 0.700 | 171.317 | 12.109 | 5.061 |
| IOSE397 | ovary | 0.739 | 13.475 | 15.361 | 31.027 |
| UWB1289 | ovary | 0.759 | 112.312 | 6.157 | 15.633 |
| OVCAR8 | ovary | 0.912 | 49.346 | 11.920 | 40.389 |
| IOSE523 | ovary | 0.917 | 39.456 | 18.871 | 115.658 |
| OV56 | ovary | 0.931 | 16.693 | 125.551 | 149.546 |
| SW626 | ovary | 1.101 | 458.240 | 42.551 | 15.602 |
| JHOS3 | ovary | 1.175 | 158.283 | 6.629 | 10.660 |
| RMGI | ovary | 1.181 | | 1.148 | 7.213 |
| KURAMOCHI | ovary | 1.266 | 146.168 | 7.452 | 13.813 |

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|---------------|----------|--------|----------|---------|---------|
| ES2 | ovary | 2.117 | 17.064 | 32.640 | 190.432 |
| CAOV4 | ovary | 2.447 | 2522.859 | 9.581 | 70.036 |
| OV17R | ovary | 3.258 | 264.728 | 10.071 | 116.040 |
| OAW28 | ovary | 3.310 | 319.672 | 7.302 | 25.801 |
| EFO21 | ovary | 4.860 | 230.625 | 5.904 | 86.422 |
| FUOV1 | ovary | 8.594 | 97.019 | 18.710 | 13.710 |
| OVISE | ovary | 12.683 | 1.937 | 10.274 | 6.007 |
| OVKATE | ovary | 15.181 | 884.431 | 77.475 | 33.846 |
| DANG | pancreas | 0.010 | 64.669 | 11.368 | 6.222 |
| PATU8902 | pancreas | 0.152 | 27.229 | 20.605 | 5.439 |
| PANC0403 | pancreas | 0.262 | 962.413 | 12.519 | 37.257 |
| HPAFII | pancreas | 0.266 | 17.500 | 5.242 | 8.527 |
| HUPT4 | pancreas | 0.280 | 1013.266 | 3.862 | 3.354 |
| PATU8988T | pancreas | 0.315 | 10.945 | 3.835 | 21.494 |
| PL18 | pancreas | 0.357 | 22.185 | 5.523 | 182.578 |
| KPIN | pancreas | 0.377 | 148.669 | 26.152 | 11.641 |
| MZ1PC | pancreas | 0.529 | 88.110 | 4.722 | 7.128 |
| KP4 | pancreas | 0.541 | 19.973 | 11.190 | 114.534 |
| PANC0813 | pancreas | 0.704 | 230.069 | 11.302 | 12.617 |
| PL4 | pancreas | 0.710 | 1697.115 | 40.212 | 19.526 |
| MIAPACA2 | pancreas | 0.791 | 28.403 | 37.333 | 10.061 |
| PANC0327 | pancreas | 1.006 | 367.561 | 2.237 | 44.039 |
| CFPAC1 | pancreas | 1.039 | 1172.646 | 7.431 | 11.042 |
| BXPC3 | pancreas | 1.074 | 43.212 | 11.419 | 37.624 |
| SUIT2 | pancreas | 1.134 | 124.814 | 68.946 | 33.405 |
| SU8686 | pancreas | 1.385 | 250.832 | 56.222 | 28.911 |
| HS766T | pancreas | 1.461 | 51.291 | 7.558 | 31.134 |
| SW1990 | pancreas | 1.465 | 826.712 | 19.723 | 147.787 |
| KP3 | pancreas | 1.925 | 68.062 | 47.284 | 25.682 |
| PANC0203 | pancreas | 1.955 | 251.001 | 13.962 | 5.031 |
| PANC1005 | pancreas | 2.240 | 89.986 | 7.403 | 24.290 |
| HUPT3 | pancreas | 2.552 | 89.201 | 36.787 | 14.929 |
| KP2 | pancreas | 3.782 | 110.477 | 14.845 | 43.642 |
| HPAC | pancreas | 4.461 | 136.253 | 9.548 | 25.648 |
| PSN1 | pancreas | 5.657 | 194.259 | 140.792 | 581.005 |
| QGP1 | pancreas | 6.622 | 3079.126 | 153.848 | 85.934 |
| YAPC | pancreas | 8.175 | 4768.423 | 37.662 | 24.014 |
| CAPAN1 | pancreas | 17.872 | 273.699 | 37.798 | 85.208 |
| LNCAPCLONEFGC | prostate | 0.147 | 0.181 | 0.140 | 14.662 |
| DU145 | prostate | 0.373 | 18.364 | 0.166 | 14.380 |
| BPH1 | prostate | 0.506 | 3.456 | 1.843 | 3.542 |
| 22RV1 | prostate | 0.583 | 50.516 | 13.911 | 16.203 |
| PC3 | prostate | 0.719 | 83.363 | 8.630 | 28.440 |
| VCAP | prostate | 4.699 | 37.402 | 24.426 | 13.680 |
| PWR1E | prostate | 7.812 | 21.497 | 19.945 | 24.784 |
| MZ2MEL | skin | 0.040 | 720.101 | 8.900 | 5.502 |
| IGR37 | skin | 0.086 | 5.048 | 0.331 | 2.933 |

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|----------|------|-------|----------|---------|---------|
| WM1158 | skin | 0.134 | 5.525 | 0.522 | 7.082 |
| IPC298 | skin | 0.252 | 26.237 | 39.492 | 24.660 |
| COLO800 | skin | 0.280 | 75.956 | 15.560 | 9.807 |
| SKMEL5 | skin | 0.291 | 29.750 | 16.871 | 27.230 |
| A375 | skin | 0.300 | 13.741 | 10.076 | 9.214 |
| LOXIMVI | skin | 0.304 | 1298.818 | 4.131 | 6.952 |
| RPMI7951 | skin | 0.308 | 4.670 | 4.453 | 13.447 |
| GAK | skin | 0.317 | 322.245 | 19.521 | 36.043 |
| CHL1 | skin | 0.380 | 64.497 | 1.635 | 11.825 |
| MELHO | skin | 0.403 | 6.109 | 0.237 | 58.395 |
| ISTMEL1 | skin | 0.404 | 11.807 | 19.877 | 26.292 |
| CP66MEL | skin | 0.411 | 358.521 | 28.044 | 12.567 |
| G361 | skin | 0.418 | 24.735 | 14.473 | 70.138 |
| SH4 | skin | 0.477 | 52.148 | 1.859 | 131.478 |
| WM793B | skin | 0.481 | 14.397 | 19.745 | 872.790 |
| MEWO | skin | 0.499 | 34.236 | 14.302 | 61.589 |
| GMEL | skin | 0.525 | | 11.374 | 23.796 |
| A431 | skin | 0.548 | 72.780 | 26.110 | 32.175 |
| MMACSF | skin | 0.581 | | 7.916 | 11.227 |
| WM35 | skin | 0.586 | 32.400 | 26.015 | 14.892 |
| MZ7MEL | skin | 0.599 | 13.307 | 38.816 | 302.712 |
| MELJUSO | skin | 0.613 | 24.208 | 4.486 | 19.327 |
| A388 | skin | 0.633 | 50.230 | 4.576 | 2.375 |
| UACC62 | skin | 0.703 | 12.578 | 1.661 | 14.987 |
| A101D | skin | 0.760 | 23.475 | 12.408 | 149.749 |
| HT144 | skin | 0.781 | 7.264 | 11.763 | 22.780 |
| RVH421 | skin | 0.810 | 3.526 | 11.671 | 23.720 |
| CP50MELB | skin | 0.816 | 2.878 | 10.920 | 6.502 |
| 451LU | skin | 0.829 | 15.389 | 246.178 | 396.711 |
| SKMEL28 | skin | 0.897 | 11.279 | 10.890 | 11.470 |
| IGR1 | skin | 0.973 | 7.299 | 127.562 | 367.335 |
| K2 | skin | 0.975 | 44.002 | 21.058 | 15.457 |
| HS939T | skin | 1.004 | 17.245 | 5.077 | 15.284 |
| MCC13 | skin | 1.038 | 2457.314 | 52.062 | 132.219 |
| SKMEL2 | skin | 1.123 | 25.202 | 16.469 | 14.001 |
| WM1552C | skin | 1.215 | 45.480 | 46.331 | 48.594 |
| SKMEL30 | skin | 1.334 | 91.684 | 134.448 | 27.060 |
| DJM1 | skin | 1.342 | 840.840 | 128.530 | 54.566 |
| SKMEL24 | skin | 1.418 | 18.285 | 8.566 | 217.463 |
| WM278 | skin | 1.495 | 22.501 | 10.369 | 14.342 |
| COLO792 | skin | 1.559 | 23.104 | 15.395 | 21.843 |
| COLO679 | skin | 1.571 | 18.347 | 12.259 | 37.886 |
| HS940T | skin | 1.704 | 27.894 | 29.921 | 51.750 |
| HMVII | skin | 1.948 | 60.435 | 23.541 | 20.416 |
| M14 | skin | 1.976 | 27.101 | 11.349 | 48.646 |
| WM115 | skin | 2.174 | 6.256 | 8.840 | 27.125 |
| MCC26 | skin | 2.664 | 71.870 | 85.420 | 31.584 |

| | | | | | |
|-----------|------------------------|--------|----------|---------|---------|
| C32 | skin | 2.746 | 14.327 | 18.228 | 71.122 |
| UACC257 | skin | 3.592 | 32.108 | 21.218 | 72.822 |
| COLO829 | skin | 3.694 | 219.655 | 42.510 | 59.667 |
| SKMEL1 | skin | 4.419 | 528.869 | 274.229 | 767.592 |
| COLO783 | skin | 4.617 | | 20.420 | 28.183 |
| SKMEL31 | skin | 14.195 | 26.886 | 29.638 | 362.200 |
| LB2518MEL | skin | 16.587 | 212.466 | 25.626 | 163.766 |
| LB373MELD | skin | 18.816 | 728.739 | 26.357 | 157.355 |
| VMRCMELG | skin | 29.055 | 18.527 | 14.560 | 14.682 |
| RH1 | soft tissue | 0.271 | 16.678 | 40.308 | 3.761 |
| MFHINO | soft tissue | 0.743 | 11.834 | 14.737 | 59.278 |
| VAESBJ | soft tissue | 1.436 | 11.545 | 167.665 | 383.899 |
| HEMCSS | soft tissue | 1.468 | 4.376 | 17.376 | 1.649 |
| SW872 | soft tissue (fat) | 0.430 | 8.035 | 10.831 | 5.682 |
| HS633T | soft tissue (fibrous) | 0.190 | 29.149 | 6.741 | 10.718 |
| HT1080 | soft tissue (fibrous) | 0.581 | 8.704 | 104.351 | 28.848 |
| GCT | soft tissue (fibrous) | 0.614 | 3.105 | 16.674 | 249.955 |
| SW684 | soft tissue (fibrous) | 10.565 | 10.073 | 7.111 | 43.497 |
| SW982 | soft tissue (synovial) | 0.744 | 3.979 | 7.575 | 14.125 |
| SNU5 | stomach | 0.138 | 20.353 | 3.130 | 21.879 |
| FU97 | stomach | 0.180 | 3.138 | 0.740 | 11.645 |
| TMK1 | stomach | 0.213 | 0.981 | 2.375 | 9.744 |
| HSC39 | stomach | 0.230 | 1.434 | 11.054 | 1.590 |
| NUGC3 | stomach | 0.290 | 122.060 | 12.357 | 60.337 |
| 2313287 | stomach | 0.293 | 1.945 | 1.367 | 7.041 |
| ECC10 | stomach | 0.293 | 7.888 | 10.476 | 39.573 |
| GT3TKB | stomach | 0.440 | 6.304 | 4.203 | 69.441 |
| N87 | stomach | 0.469 | 17.578 | 1.761 | 5.946 |
| SKGT2 | stomach | 0.529 | 27.052 | 23.434 | 90.158 |
| SCH | stomach | 0.747 | 41.672 | 6.937 | 41.047 |
| MKN1 | stomach | 0.781 | 56.205 | 7.559 | 5.342 |
| HS746T | stomach | 0.870 | 223.140 | 9.372 | 69.943 |
| AGS | stomach | 0.880 | 10.894 | 85.626 | 1.958 |
| MKN45 | stomach | 1.243 | 178.076 | 85.192 | 45.731 |
| KATOIII | stomach | 1.313 | 3.007 | 276.018 | 21.747 |
| SNU16 | stomach | 1.440 | 41.353 | 15.808 | 35.807 |
| MKN28 | stomach | 2.074 | 1392.734 | 59.782 | 31.255 |
| NUGC4 | stomach | 2.234 | 4807.719 | 10.107 | 29.854 |
| MKN7 | stomach | 2.413 | 101.675 | 16.953 | 33.544 |
| RERFGC1B | stomach | 2.530 | 96.260 | 34.514 | 51.844 |
| OCUM1 | stomach | 6.441 | 27.735 | 96.451 | 156.799 |
| IM95 | stomach | 6.497 | 1.865 | 15.489 | 5.612 |
| TGBC11TKB | stomach | 7.350 | 462.319 | 145.216 | 24.384 |
| SNU1 | stomach | 8.023 | 1235.652 | 261.327 | 814.703 |
| RF48 | stomach | 20.407 | 182.653 | 37.915 | 101.897 |
| K5 | thyroid | 0.174 | 0.531 | 3.026 | 1.244 |
| BHT101 | thyroid | 0.180 | 11.871 | 1.849 | 8.171 |

| | | | | | |
|----------------------|------------|--------|---------|---------|---------|
| CAL62 | thyroid | 0.184 | 84.066 | 46.376 | 17.649 |
| HTCC3 | thyroid | 0.233 | 22.448 | 3.827 | 17.359 |
| BCPAP | thyroid | 0.289 | 22.884 | 9.001 | 141.268 |
| IHH4 | thyroid | 0.330 | 46.909 | 8.836 | 67.886 |
| 8305C | thyroid | 0.406 | 52.796 | 5.353 | 10.075 |
| S117 | thyroid | 0.642 | 49.235 | 6.567 | 156.081 |
| RO82W1 | thyroid | 0.711 | 18.229 | 22.079 | 21.183 |
| ASH3 | thyroid | 1.833 | 61.863 | 17.443 | 17.301 |
| 8505C | thyroid | 2.672 | 52.210 | 95.468 | 45.510 |
| FTC133 | thyroid | 3.378 | 6.658 | 24.517 | 670.328 |
| TT2609C02 | thyroid | 21.691 | 50.018 | 109.627 | 945.991 |
| NTERASCLD1 | urogenital | 0.101 | 17.951 | 1.276 | 7.078 |
| CAL39 | urogenital | 0.155 | 4.475 | 11.845 | 5.026 |
| SW962 | urogenital | 0.170 | 17.296 | 0.612 | 9.224 |
| SW954 | urogenital | 0.517 | 1.440 | 8.769 | 2.641 |
| NEC8 | urogenital | 0.951 | 112.584 | 16.510 | 31.544 |
| JEG3 | urogenital | 1.706 | 109.409 | 9.393 | 184.257 |
| JAR | urogenital | 9.274 | 9.406 | 2.029 | 231.502 |
| MFE296 | uterus | 0.110 | 0.009 | 5.737 | 14.135 |
| MFE280 | uterus | 0.122 | 83.062 | 4.484 | 3.283 |
| AN3CA | uterus | 0.181 | 0.868 | 3.826 | 5.084 |
| SKUT1 | uterus | 0.243 | 83.812 | 10.065 | 30.093 |
| MESSA | uterus | 0.360 | 14.220 | 13.072 | 4.612 |
| SKN | uterus | 0.554 | 2.129 | 0.620 | 29.560 |
| 639V | uterus | 0.692 | 825.328 | 5.471 | 7.012 |
| MFE319 | uterus | 0.821 | 0.236 | 13.934 | 63.340 |
| COLO684 | uterus | 0.824 | 0.278 | 5.172 | 18.429 |
| HEC1 | uterus | 0.871 | 32.577 | 205.411 | 27.054 |
| SNGM | uterus | 0.993 | 11.404 | 5.462 | 2.022 |
| ISHIKAWAHERAKLIO02ER | uterus | 1.054 | 2.977 | 5.675 | 7.335 |
| KLE | uterus | 1.762 | 44.797 | 4.243 | 100.305 |
| RL952 | uterus | 2.002 | | 34.574 | 637.420 |
| ESS1 | uterus | 2.750 | 82.869 | 36.667 | 7.093 |
| EN | uterus | 9.377 | 10.564 | 113.612 | 166.854 |

*NB- There are 43 cell lines where an IC₅₀ value was not generated for AZD5363, this is due to a technical error from the screen.

Supplementary Table 2: Sanger cancer cell line pharmacology results and subtype classification for hematological malignancies

| Cell Line | Tissue | AZD2014 (IC ₅₀ uM) | AZD5363 (IC ₅₀ uM) | AZD8186 (IC ₅₀ uM) | AZD8835 (IC ₅₀ uM) | Subtype | Further Classification |
|-------------|-------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---|---|
| RCHACV | blood/lymph | 0.255 | 0.910 | 0.655 | 0.715 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| GRST | blood/lymph | 0.052 | 1.208 | 3.481 | 1.874 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| ALLPO | blood/lymph | 9.273 | 1.611 | 50.405 | 147.828 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| KARPAS231 | blood/lymph | 0.763 | 1.616 | 3.168 | 11.618 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| REH | blood/lymph | 0.149 | 1.836 | 0.850 | 0.666 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| NALM6 | blood/lymph | 0.691 | 2.052 | 3.270 | 3.536 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| RS411 | blood/lymph | 1.173 | 2.501 | 34.067 | 98.665 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| HAL01 | blood/lymph | 0.222 | 5.195 | 0.660 | 0.250 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| 697 | blood/lymph | 0.069 | 5.329 | 1.991 | 1.396 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| WIL2NS | blood/lymph | 0.461 | 36.669 | 31.636 | 23.199 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| BALL1 | blood/lymph | 5.440 | 74.328 | 51.484 | 634.828 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| MHHCALL2 | blood/lymph | 27.819 | 169.518 | 133.014 | 739.901 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| VAL | blood/lymph | 0.448 | 241.688 | 14.824 | 33.459 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| MN60 | blood/lymph | 0.379 | 242.568 | 37.411 | 28.227 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| ROS50 | blood/lymph | 43.499 | 590.362 | 118.654 | 443.063 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| KOPN8 | blood/lymph | 0.473 | | 41.143 | 266.524 | acute lymphoblastic leukemia (ALL) (B-cell) | acute lymphoblastic leukemia (ALL) (B-cell) |
| MOLT16 | blood/lymph | 0.186 | 0.025 | 43.151 | 8.730 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| JRT3T35 | blood/lymph | 0.079 | 0.124 | 7.610 | 96.813 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| LOUCY | blood/lymph | 0.197 | 0.147 | 139.459 | 3.362 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| KE37 | blood/lymph | 0.424 | 0.173 | 164.312 | 337.216 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| CCRFCEM | blood/lymph | 0.038 | 0.231 | 13.779 | 6.943 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| MOLT4 | blood/lymph | 0.046 | 0.277 | 0.530 | 0.811 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| KARPAS45 | blood/lymph | 0.685 | 2.175 | 1.906 | 23.922 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| ATN1 | blood/lymph | 0.342 | 2.783 | 6.219 | 2.427 | acute lymphoblastic leukemia (ALL) (T-cell) | adult T-cell leukaemia |
| RPMI8402 | blood/lymph | 0.075 | 3.659 | 0.218 | 1.100 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| PF382 | blood/lymph | 4.301 | 4.856 | 170.133 | 111.204 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| SUPT1 | blood/lymph | 8.984 | 5.558 | 364.567 | 294.388 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| JURKAT | blood/lymph | 0.271 | 7.445 | 26.197 | 11.429 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| BE13 | blood/lymph | 0.198 | 11.073 | 305.799 | 141.762 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| P121CHIKAWA | blood/lymph | 3.347 | 18.252 | 149.770 | 83.434 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |

| | | | | | | | |
|----------|-------------|--------|---------|---------|---------|---|--|
| MOLT13 | blood/lymph | 0.228 | 34.297 | 58.799 | 276.863 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| DND41 | blood/lymph | 0.912 | 40.063 | 24.543 | 87.633 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| ALLSIL | blood/lymph | 0.484 | | 6.723 | 4.755 | acute lymphoblastic leukemia (ALL) (T-cell) | acute lymphoblastic leukemia (ALL) (T-cell) |
| P300HK | blood/lymph | 0.049 | 8.710 | 0.287 | 0.222 | acute lymphoblastic leukemia (ALL)_ other | acute lymphoblastic leukemia (ALL) (not otherwise specified) |
| YT | blood/lymph | 4.548 | 53.347 | 136.455 | 709.283 | acute lymphoblastic leukemia (ALL)_ other | acute lymphoblastic leukemia (ALL) (not otherwise specified) |
| LC41 | blood/lymph | 0.835 | 191.636 | 52.465 | 171.039 | acute lymphoblastic leukemia (ALL)_ other | acute lymphoblastic leukemia (ALL) (not otherwise specified) |
| KASUMI1 | blood/lymph | 0.153 | 0.499 | 0.911 | 0.437 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| MOLM13 | blood/lymph | 0.089 | 0.659 | 5.041 | 1.727 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| MC1010 | blood/lymph | 0.270 | 0.686 | 0.362 | 0.629 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| EOL1 | blood/lymph | 0.168 | 0.905 | 24.014 | 5.560 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| PL21 | blood/lymph | 0.653 | 1.083 | 7.241 | 2.389 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| MOLM16 | blood/lymph | 0.050 | 1.094 | 0.341 | 0.989 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| SKM1 | blood/lymph | 0.722 | 1.453 | 1.928 | 1.776 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| MONOMAC6 | blood/lymph | 0.166 | 1.455 | 4.420 | 2.518 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| MV411 | blood/lymph | 0.121 | 1.908 | 13.662 | 4.072 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| CTV1 | blood/lymph | 0.771 | 2.899 | 18.493 | 22.438 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| P31FUJ | blood/lymph | 1.100 | 3.207 | 184.763 | 16.751 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| NOMO1 | blood/lymph | 0.367 | 4.286 | 13.741 | 4.725 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| KMOE2 | blood/lymph | 0.258 | 6.687 | 25.880 | 11.267 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| OClAML3 | blood/lymph | 0.394 | 7.274 | 8.069 | 2.138 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| HL60 | blood/lymph | 23.531 | 8.015 | 31.594 | 47.828 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| NKM1 | blood/lymph | 0.135 | 11.410 | 3.911 | 2.997 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| ML2 | blood/lymph | 0.386 | 12.464 | 1.999 | 5.795 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| KY821 | blood/lymph | 43.582 | 13.022 | 12.869 | 18.201 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| NB4 | blood/lymph | 0.510 | 18.251 | 4.907 | 2.490 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| THP1 | blood/lymph | 10.825 | 22.681 | 16.738 | 25.681 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| QIMRWIL | blood/lymph | 0.491 | 31.746 | 5.716 | 25.875 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| SET2 | blood/lymph | 1.359 | 36.027 | 158.881 | 35.886 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| OClAML2 | blood/lymph | 0.264 | 42.213 | 31.289 | 27.789 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| CESS | blood/lymph | 0.525 | 59.284 | 3.623 | 8.225 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| CMK | blood/lymph | 0.768 | 105.408 | 68.138 | 42.115 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |

| | | | | | | | |
|--------------|-------------|-------|----------|---------|----------|---|--|
| KG1 | blood/lymph | 0.151 | 113.113 | 32.798 | 9.277 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| OClAML5 | blood/lymph | 1.705 | 386.588 | 5.672 | 2.437 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| OCIM1 | blood/lymph | 1.259 | 450.151 | 222.589 | 847.650 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| GDM1 | blood/lymph | 0.218 | 1027.702 | 2.986 | 1.282 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| HEL | blood/lymph | 1.023 | 1370.458 | 306.918 | 600.188 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| ME1 | blood/lymph | 7.599 | 2814.551 | 191.303 | 1974.787 | acute myelogenous leukemia (AML) | acute myelogenous leukemia (AML) |
| RAMOS2G64C10 | blood/lymph | 0.044 | 1.517 | 14.669 | 287.287 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| BL41 | blood/lymph | 0.544 | 3.454 | 22.007 | 70.892 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| DG75 | blood/lymph | 0.172 | 4.847 | 54.735 | 155.821 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| GA10 | blood/lymph | 0.046 | 5.785 | 3.171 | 13.316 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| P32ISH | blood/lymph | 0.544 | 8.026 | 6.395 | 9.086 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| RL | blood/lymph | 2.182 | 12.663 | 4.445 | 37.120 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| SUPB8 | blood/lymph | 2.596 | 15.504 | 91.747 | 960.551 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| DAUDI | blood/lymph | 0.179 | 39.470 | 5.957 | 10.877 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| EB2 | blood/lymph | 3.885 | 53.938 | 31.059 | 70.204 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| NAMALWA | blood/lymph | 0.757 | 63.992 | 15.219 | 7.873 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| ST486 | blood/lymph | 1.365 | 112.482 | 225.841 | 1748.013 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| CA46 | blood/lymph | 0.115 | 154.631 | 8.848 | 12.762 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| J1YOYEP2003 | blood/lymph | 0.126 | 214.340 | 17.036 | 24.798 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| RAJI | blood/lymph | 0.181 | 716.889 | 58.906 | 157.034 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| EB3 | blood/lymph | 0.083 | 891.047 | 25.739 | 104.271 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| BL70 | blood/lymph | 0.121 | | 3.630 | 7.916 | Burkitt lymphoma (B-cell) | Burkitt lymphoma (B-cell) |
| EHEB | blood/lymph | 7.494 | 2.206 | 0.350 | 27.656 | chronic lymphocytic leukemia (CLL) (B-cell) | chronic lymphocytic leukemia (CLL) (B-cell) |
| MEC1 | blood/lymph | 0.062 | 5.479 | 0.436 | 0.320 | chronic lymphocytic leukemia (CLL) (B-cell) | chronic lymphocytic leukemia (CLL) (B-cell) |
| JVM3 | blood/lymph | 0.405 | 6.837 | 22.366 | 19.983 | chronic lymphocytic leukemia (CLL) (B-cell) | chronic lymphocytic leukemia (CLL) (B-cell), prolymphocytic leukemia (PLL) (B-cell) |
| EM2 | blood/lymph | 0.055 | 2.082 | 8.070 | 8.349 | chronic myelogenous leukemia (CML) | chronic myelogenous leukemia (CML) |
| BV173 | blood/lymph | 0.385 | 2.686 | 171.246 | 16.904 | chronic myelogenous leukemia (CML) | chronic myelogenous leukemia (CML) |
| RPMI8866 | blood/lymph | 0.100 | 3.015 | 0.266 | 0.635 | chronic myelogenous leukemia (CML) | chronic myelogenous leukemia (CML) |
| JURLMK1 | blood/lymph | 0.827 | 6.538 | 90.881 | 202.677 | chronic myelogenous leukemia (CML) | chronic myelogenous leukemia (CML) |
| KU812 | blood/lymph | 0.178 | 7.788 | 48.495 | 1086.897 | chronic myelogenous leukemia (CML) | chronic myelogenous leukemia (CML) |
| K562 | blood/lymph | 0.499 | 53.881 | 135.178 | 773.969 | chronic myelogenous leukemia (CML) | chronic myelogenous leukemia (CML) |

| | | | | | | | |
|-----------|-------------|----------|----------|---------|----------|---------------------------------------|---------------------------------------|
| CMLT1 | blood/lymph | 0.584 | 130.211 | 152.273 | 942.283 | chronic myelogenous leukemia (CML) | chronic myelogenous leukemia (CML) |
| MEG01 | blood/lymph | 0.267 | 141.030 | 123.585 | 119.371 | chronic myelogenous leukemia (CML) | chronic myelogenous leukemia (CML) |
| LAMA84 | blood/lymph | 4.968 | 190.251 | 60.663 | 580.681 | chronic myelogenous leukemia (CML) | chronic myelogenous leukemia (CML) |
| KCL22 | blood/lymph | 0.076 | | 28.319 | 36.555 | chronic myelogenous leukemia (CML) | chronic myelogenous leukemia (CML) |
| WSUDLCL2 | blood/lymph | 536.807 | 0.003 | 37.875 | 781.327 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| OCILY7 | blood/lymph | 0.249 | 0.076 | 2.015 | 7.747 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| SUDHL4 | blood/lymph | 0.893 | 0.238 | 1.012 | 458.613 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| SUDHL5 | blood/lymph | 0.038 | 0.300 | 0.036 | 0.187 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| WSUNHL | blood/lymph | 0.185 | 0.344 | 0.149 | 0.247 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| SUDHL10 | blood/lymph | 2.805 | 0.395 | 12.216 | 23.354 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| SUDHL16 | blood/lymph | 0.178 | 0.505 | 3.235 | 1.285 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| FARAGE | blood/lymph | 1044.822 | 0.839 | 286.282 | 1128.638 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| A4FUK | blood/lymph | 0.128 | 0.855 | 10.424 | 14.779 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| HT | blood/lymph | 0.852 | 1.174 | 6.688 | 23.004 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| KARPAS422 | blood/lymph | 5.090 | 2.809 | 1.839 | 25.690 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| CTB1 | blood/lymph | 1.134 | 11.693 | 16.675 | 307.773 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| OCILY19 | blood/lymph | 0.962 | 18.448 | 13.133 | 37.825 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| U698M | blood/lymph | 0.138 | 29.797 | 21.165 | 88.321 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| TK | blood/lymph | 0.757 | 29.973 | 20.978 | 63.742 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| SUDHL8 | blood/lymph | 0.918 | 70.804 | 64.530 | 270.072 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| A3KAW | blood/lymph | 0.102 | 188.901 | 16.825 | 240.363 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| RCK8 | blood/lymph | 261.043 | 1901.977 | 139.477 | 474.596 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| SC11 | blood/lymph | 0.323 | 3559.114 | 23.254 | 129.733 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| DB | blood/lymph | 0.124 | | 14.954 | 175.601 | diffuse large B-cell lymphoma (DLBCL) | diffuse large B-cell lymphoma (DLBCL) |
| L1236 | blood/lymph | 0.395 | 3.133 | 16.137 | 17.078 | Hodgkin lymphoma | Hodgkin lymphoma |
| RPMI6666 | blood/lymph | 2.216 | 4.096 | 10.551 | 14.758 | Hodgkin lymphoma | Hodgkin lymphoma |
| SUPHD1 | blood/lymph | 0.885 | 5.543 | 31.992 | 73.944 | Hodgkin lymphoma | Hodgkin lymphoma |
| KMH2 | blood/lymph | 0.802 | 23.928 | 41.132 | 64.305 | Hodgkin lymphoma | Hodgkin lymphoma |
| HDLM2 | blood/lymph | 7.185 | 34.375 | 73.058 | 165.795 | Hodgkin lymphoma | Hodgkin lymphoma |
| L540 | blood/lymph | 0.188 | 61.509 | 43.411 | 10.889 | Hodgkin lymphoma | Hodgkin lymphoma |
| HDMYZ | blood/lymph | 0.298 | 118.538 | 17.411 | 35.880 | Hodgkin lymphoma | Hodgkin lymphoma |
| L428 | blood/lymph | 2.298 | 1592.791 | 133.557 | 408.307 | Hodgkin lymphoma | Hodgkin lymphoma |
| HS445 | blood/lymph | 6.722 | | 5.603 | 1.818 | Hodgkin lymphoma | Hodgkin lymphoma |

| | | | | | | | |
|-----------|-------------|-------|----------|---------|---------|-------------------------------------|--|
| L363 | blood/lymph | 0.051 | 0.273 | 1.993 | 0.525 | leukemia_other | plasma cell leukemia (PCL) |
| KARPAS620 | blood/lymph | 0.274 | 0.473 | 10.986 | 6.115 | leukemia_other | plasma cell leukemia (PCL) |
| MOT | blood/lymph | 7.226 | 7.381 | 32.218 | 47.028 | leukemia_other | hairy cell leukemia (HCL) (T-cell) |
| JJN3 | blood/lymph | 0.358 | 9.531 | 189.519 | 78.551 | leukemia_other | plasma cell leukemia (PCL) |
| SKMM2 | blood/lymph | 0.260 | 23.948 | 23.980 | 5.197 | leukemia_other | plasma cell leukemia (PCL) |
| MLMA | blood/lymph | 3.730 | 58.228 | 7.291 | 3.691 | leukemia_other | hairy cell leukemia (HCL) (B-cell) |
| HC1 | blood/lymph | 0.146 | 92.931 | 3.848 | 3.709 | leukemia_other | hairy cell leukemia (HCL) |
| TUR | blood/lymph | 0.076 | 0.332 | 4.761 | 4.194 | lymphoma_other | histiocytic lymphoma |
| SR | blood/lymph | 0.304 | 2.009 | 20.767 | 9.299 | lymphoma_other | lymphoma (not otherwise specified) |
| JVM2 | blood/lymph | 0.292 | 5.080 | 0.834 | 2.045 | lymphoma_other | mantle cell lymphoma (MCL) |
| HH | blood/lymph | 0.015 | 15.159 | 0.075 | 0.243 | lymphoma_other | cutaneous T-cell lymphoma (CTCL) |
| H9 | blood/lymph | 0.285 | 42.140 | 74.904 | 36.009 | lymphoma_other | cutaneous T-cell lymphoma (CTCL) |
| KARPAS299 | blood/lymph | 0.820 | 57.146 | 83.847 | 165.436 | lymphoma_other | anaplastic large cell lymphoma (ALCL) (T-cell) |
| JM1 | blood/lymph | 2.418 | 79.891 | 35.655 | 46.144 | lymphoma_other | lymphoma (B-cell) (not otherwise specified) |
| SUPM2 | blood/lymph | 0.047 | 110.527 | 2.201 | 3.174 | lymphoma_other | anaplastic large cell lymphoma (ALCL) (T-cell) |
| MC116 | blood/lymph | 0.851 | 892.108 | 20.367 | 86.809 | lymphoma_other | lymphoma (B-cell) (not otherwise specified) |
| DEL | blood/lymph | 0.089 | 2024.822 | 8.091 | 148.056 | lymphoma_other | anaplastic large cell lymphoma (ALCL) (T-cell) |
| H929 | blood/lymph | 0.043 | 0.003 | 0.729 | 0.285 | multiple myeloma (MM) | multiple myeloma (MM) |
| MCCAR | blood/lymph | 0.135 | 0.146 | 179.217 | 13.090 | multiple myeloma (MM) | multiple myeloma (MM) |
| OPM2 | blood/lymph | 1.621 | 2.499 | 139.191 | 387.894 | multiple myeloma (MM) | multiple myeloma (MM) |
| MOLP8 | blood/lymph | 0.160 | 2.535 | 3.359 | 3.786 | multiple myeloma (MM) | multiple myeloma (MM) |
| LP1 | blood/lymph | 1.432 | 16.174 | 114.760 | 289.315 | multiple myeloma (MM) | multiple myeloma (MM) |
| RPMI8226 | blood/lymph | 0.121 | 20.862 | 9.733 | 120.000 | multiple myeloma (MM) | multiple myeloma (MM) |
| EJM | blood/lymph | 0.753 | 33.121 | 23.746 | 111.305 | multiple myeloma (MM) | multiple myeloma (MM) |
| KMS11 | blood/lymph | 0.267 | 295.708 | 7.989 | 4.970 | multiple myeloma (MM) | multiple myeloma (MM) |
| IM9 | blood/lymph | 1.184 | 1064.479 | 348.479 | 159.194 | multiple myeloma (MM) | multiple myeloma (MM) |
| ARH77 | blood/lymph | 0.258 | 1821.187 | 7.327 | 10.417 | multiple myeloma (MM) | multiple myeloma (MM) |
| U266 | blood/lymph | 3.330 | | 40.322 | 348.119 | multiple myeloma (MM) | multiple myeloma (MM) |
| AM01 | blood/lymph | 0.119 | 11.791 | 6.788 | 6.034 | myeloma_other | plasmacytoma |
| NUDUL1 | blood/lymph | 7.095 | 0.355 | 17.071 | 37.439 | non-Hodgkin lymphoma (NHL) (B-cell) | non-Hodgkin lymphoma (NHL) (B-cell) |
| CROAP2 | blood/lymph | 0.101 | 1.363 | 4.170 | 2.806 | non-Hodgkin lymphoma (NHL) (B-cell) | non-Hodgkin lymphoma (NHL) (B-cell), primary effusion lymphoma (PEL) |

| | | | | | | | |
|-------------|-------------|-------|--------|---------|---------|-------------------------------------|---|
| JEKO1 | blood/lymph | 0.098 | 2.718 | 1.402 | 1.966 | non-Hodgkin lymphoma (NHL) (B-cell) | non-Hodgkin lymphoma (NHL) (B-cell) |
| KARPAS1106P | blood/lymph | 1.193 | 5.811 | 15.941 | 315.771 | non-Hodgkin lymphoma (NHL) (B-cell) | non-Hodgkin lymphoma (NHL) (B-cell) |
| MHHPREB1 | blood/lymph | 0.049 | 6.218 | 1.450 | 6.082 | non-Hodgkin lymphoma (NHL) (B-cell) | non-Hodgkin lymphoma (NHL) (B-cell) |
| CROAP3 | blood/lymph | 0.041 | 7.219 | 45.969 | 68.326 | non-Hodgkin lymphoma (NHL) (B-cell) | non-Hodgkin lymphoma (NHL) (B-cell), primary effusion lymphoma (PEL) |
| JSC1 | blood/lymph | 0.695 | 13.649 | 246.620 | 189.798 | non-Hodgkin lymphoma (NHL) (B-cell) | non-Hodgkin lymphoma (NHL) (B-cell), primary effusion lymphoma (PEL) |
| GRANTA519 | blood/lymph | 2.801 | 30.580 | 114.589 | 54.760 | non-Hodgkin lymphoma (NHL) (B-cell) | non-Hodgkin lymphoma (NHL) (B-cell) |
| SLVL | blood/lymph | 4.966 | 59.456 | 36.874 | 61.930 | non-Hodgkin lymphoma (NHL) (B-cell) | non-Hodgkin lymphoma (NHL) (B-cell), splenic marginal zone lymphoma (SMZL) |
| BC1 | blood/lymph | 0.091 | 76.186 | 26.256 | 58.809 | non-Hodgkin lymphoma (NHL) (B-cell) | non-Hodgkin lymphoma (NHL) (B-cell), primary effusion lymphoma (PEL) |

Supplementary Table 3: Synergy scores from the T-ALL PI3K intra-pathway combination screen

| | CCRFCEM | JRT3T35 | JURKAT | MOLT4 | PF382 | RPMI8402 | SUPT1 |
|-----------------|---------|---------|--------|-------|-------|----------|-------|
| AZD2014_AZD5363 | -2.3 | 1.46 | 1.89 | -4.38 | -0.55 | -0.44 | 1.24 |
| AZD8186_AZD2014 | -0.93 | 0.13 | 2.1 | -0.04 | -0.16 | 0.84 | -0.7 |
| AZD8186_AZD5363 | 0.82 | 0.12 | -0.26 | -2.04 | -0.29 | -0.85 | -3.17 |
| AZD8186_AZD8835 | 0.09 | 0 | 0.54 | 1.19 | 0.3 | -0.62 | -3.61 |
| AZD8835_AZD2014 | 1.69 | -0.32 | -0.89 | -1.01 | 0.03 | -0.42 | -0.18 |
| AZD8835_AZD5363 | -0.64 | -0.19 | -1.28 | -3.36 | -0.11 | -1.54 | -3.32 |

A panel of T-ALL cell lines were treated with a dose response of different PI3K pathway inhibitors in a 8 × 8 dose response matrix. Live cell number was assessed after 5 days using a sytox green endpoint and synergy scores were generated using the Loewe model of additivity. Values represent the mean synergy score for each combination indicated ($n = 2$).

Supplementary Table 4: PI3K enzyme and cell IC₅₀ (μM) data for PI3K compounds

| | Enzyme Assay | | | | Cell Assay | | | |
|---------|---------------|--------------|---------------|---------------|--------------------------------|----------------------------------|-------------------------------|---------------------------------|
| | PI3K α | PI3K β | PI3K δ | PI3K γ | PI3K α -driven BT474 | PI3K β -driven MDAMB468 | PI3K δ -driven JEKO | PI3K γ -driven RAW264 |
| AZD8186 | 0.045 | 0.001 | 0.006 | 0.223 | 0.725 | 0.003 | 0.017 | > 1 |
| AZD8835 | 0.006 | 0.431 | 0.006 | 0.090 | 0.090 | 3.555 | 0.049 | 0.532 |
| BYL719 | 0.005 | 0.852 | 0.058 | 0.138 | 0.093 | 9.740 | 0.255 | 0.138 |
| GDC0941 | 0.005 | 0.028 | 0.004 | 0.068 | 0.044 | 0.172 | 0.010 | 0.150 |
| CAL101 | 0.715 | 0.260 | 0.004 | 0.072 | 12.130 | 0.638 | 0.004 | 2.333 |
| IPI-145 | 0.182 | 0.021 | < 0.001 | 0.006 | 0.775 | 0.098 | < 0.001 | 0.103 |

Enzymes assayed by ADP Kinase Glo. Cell assays measured AKT phosphorylation. Data is geometric means of multiple IC₅₀ determinations.