

| | p_val | avg_log2FC | pct.1 | pct.2 | p_val_adj | cluster | gene |
|-----------|-------|--------------|-------|-------|-----------|---------|------------|
| RPL10 | 0 | 1.819908231 | 0.949 | 0.912 | 0 | lobular | RPL10 |
| RPS3 | 0 | 1.81604144 | 0.884 | 0.843 | 0 | lobular | RPS3 |
| RPS11 | 0 | 1.653818756 | 0.894 | 0.564 | 0 | lobular | RPS11 |
| TMSB10 | 0 | 1.579126235 | 0.878 | 0.491 | 0 | lobular | TMSB10 |
| RPS12 | 0 | 1.41506119 | 0.737 | 0.503 | 0 | lobular | RPS12 |
| DIO2 | 0 | 1.371056782 | 0.31 | 0.083 | 0 | lobular | DIO2 |
| RPL19 | 0 | 1.369488293 | 0.93 | 0.855 | 0 | lobular | RPL19 |
| RPLP0 | 0 | 1.33754745 | 0.91 | 0.794 | 0 | lobular | RPLP0 |
| HPX | 0 | 1.22775497 | 0.304 | 0.07 | 0 | lobular | HPX |
| ANKRD30A | 0 | 1.20772945 | 0.6 | 0.263 | 0 | lobular | ANKRD30A |
| PTHLH | 0 | 1.178957482 | 0.331 | 0.081 | 0 | lobular | PTHLH |
| EIF2B5 | 0 | 1.151714614 | 0.55 | 0.315 | 0 | lobular | EIF2B5 |
| ERBB4 | 0 | 1.137604686 | 0.605 | 0.309 | 0 | lobular | ERBB4 |
| RPL10A | 0 | 1.129483999 | 0.799 | 0.582 | 0 | lobular | RPL10A |
| FTL | 0 | 1.113596813 | 0.655 | 0.326 | 0 | lobular | FTL |
| NBEAL1 | 0 | 1.055255649 | 0.828 | 0.529 | 0 | lobular | NBEAL1 |
| AREG | 0 | 1.04445651 | 0.561 | 0.272 | 0 | lobular | AREG |
| RPS18 | 0 | 0.988999102 | 0.756 | 0.436 | 0 | lobular | RPS18 |
| GNAS | 0 | 0.977566622 | 0.839 | 0.61 | 0 | lobular | GNAS |
| SERF2 | 0 | 0.956735644 | 0.527 | 0.176 | 0 | lobular | SERF2 |
| AMBRA1 | 0 | 0.955761452 | 0.787 | 0.494 | 0 | lobular | AMBRA1 |
| RPL15 | 0 | 0.949047938 | 0.867 | 0.631 | 0 | lobular | RPL15 |
| ACTG1 | 0 | 0.910288446 | 0.8 | 0.601 | 0 | lobular | ACTG1 |
| GNB2L1 | 0 | 0.905572278 | 0.772 | 0.506 | 0 | lobular | GNB2L1 |
| COX4I1 | 0 | 0.871950883 | 0.839 | 0.666 | 0 | lobular | COX4I1 |
| RPS8 | 0 | 0.845433614 | 0.828 | 0.587 | 0 | lobular | RPS8 |
| OST4 | 0 | 0.832455471 | 0.519 | 0.244 | 0 | lobular | OST4 |
| MT-ND1 | 0 | 0.577968263 | 0.991 | 0.961 | 0 | lobular | MT-ND1 |
| RPS14 | 0 | 0.558013124 | 0.519 | 0.234 | 0 | lobular | RPS14 |
| TPT1 | 0 | 0.540946218 | 0.907 | 0.761 | 0 | lobular | TPT1 |
| MT-ATP6 | 0 | 0.534050557 | 0.995 | 0.984 | 0 | lobular | MT-ATP6 |
| RPL37A | 0 | -0.406225757 | 0.971 | 0.98 | 0 | lobular | RPL37A |
| EEF1A1 | 0 | -0.481011136 | 0.97 | 0.983 | 0 | lobular | EEF1A1 |
| RPL39 | 0 | -0.509772286 | 0.871 | 0.944 | 0 | lobular | RPL39 |
| RPL34 | 0 | -0.592745866 | 0.975 | 0.983 | 0 | lobular | RPL34 |
| KIZ-AS1 | 0 | -0.596703007 | 0.802 | 0.914 | 0 | lobular | KIZ-AS1 |
| LINC00486 | 0 | -0.61251405 | 0.984 | 0.993 | 0 | lobular | LINC00486 |
| SLC47A1 | 0 | -0.641508596 | 0.863 | 0.952 | 0 | lobular | SLC47A1 |
| RPL24 | 0 | -0.676667684 | 0.894 | 0.954 | 0 | lobular | RPL24 |
| PLEKHA6 | 0 | -0.716527974 | 0.787 | 0.91 | 0 | lobular | PLEKHA6 |
| SKP1 | 0 | -0.718890034 | 0.767 | 0.875 | 0 | lobular | SKP1 |
| ADGRL3-AS | 0 | -0.729782258 | 0.521 | 0.729 | 0 | lobular | ADGRL3-AS1 |

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|-----------|-----------|--------------|-------|-------|-----------|---------|---------------|
| RBFOX2 | 0 | -0.732646875 | 0.94 | 0.971 | 0 | lobular | RBFOX2 |
| NPM1 | 0 | -0.749023387 | 0.642 | 0.836 | 0 | lobular | NPM1 |
| ANXA2 | 0 | -0.774807154 | 0.917 | 0.943 | 0 | lobular | ANXA2 |
| SON | 0 | -0.813488169 | 0.623 | 0.777 | 0 | lobular | SON |
| SEC61G | 0 | -0.862317764 | 0.524 | 0.727 | 0 | lobular | SEC61G |
| RPS3A | 0 | -0.890992547 | 0.869 | 0.95 | 0 | lobular | RPS3A |
| RP11-356C | 0 | -0.908074306 | 0.078 | 0.27 | 0 | lobular | RP11-356C4.5 |
| MET | 0 | -0.917931571 | 0.146 | 0.365 | 0 | lobular | MET |
| RP11-795H | 0 | -1.002727826 | 0.273 | 0.512 | 0 | lobular | RP11-795H16.3 |
| UBC | 0 | -1.014091205 | 0.861 | 0.963 | 0 | lobular | UBC |
| SOD2 | 0 | -1.030661906 | 0.714 | 0.885 | 0 | lobular | SOD2 |
| GRB14 | 0 | -1.067678487 | 0.323 | 0.556 | 0 | lobular | GRB14 |
| RPL21 | 0 | -1.069539434 | 0.822 | 0.951 | 0 | lobular | RPL21 |
| PTEN | 0 | -1.072595202 | 0.759 | 0.89 | 0 | lobular | PTEN |
| TSHZ2 | 0 | -1.077660036 | 0.163 | 0.397 | 0 | lobular | TSHZ2 |
| PSME2 | 0 | -1.089003029 | 0.198 | 0.456 | 0 | lobular | PSME2 |
| EPB42 | 0 | -1.099491879 | 0.869 | 0.94 | 0 | lobular | EPB42 |
| PCNXL2 | 0 | -1.117886167 | 0.705 | 0.864 | 0 | lobular | PCNXL2 |
| FAM172A | 0 | -1.129217956 | 0.541 | 0.749 | 0 | lobular | FAM172A |
| PGK1 | 0 | -1.153963297 | 0.465 | 0.709 | 0 | lobular | PGK1 |
| LTF | 0 | -1.189813971 | 0.244 | 0.513 | 0 | lobular | LTF |
| ALDH1A3 | 0 | -1.206707653 | 0.18 | 0.441 | 0 | lobular | ALDH1A3 |
| ANKRD36C | 0 | -1.213598799 | 0.356 | 0.633 | 0 | lobular | ANKRD36C |
| STEAP1B | 0 | -1.243422608 | 0.922 | 0.954 | 0 | lobular | STEAP1B |
| SDCBP | 0 | -1.275730213 | 0.528 | 0.77 | 0 | lobular | SDCBP |
| RCAN1 | 0 | -1.29291809 | 0.311 | 0.54 | 0 | lobular | RCAN1 |
| AKT3 | 0 | -1.347825087 | 0.231 | 0.543 | 0 | lobular | AKT3 |
| B2M | 0 | -1.35009724 | 0.963 | 0.986 | 0 | lobular | B2M |
| PDE4B | 0 | -1.521512584 | 0.411 | 0.698 | 0 | lobular | PDE4B |
| FAM177B | 0 | -1.657631728 | 0.375 | 0.693 | 0 | lobular | FAM177B |
| SLPI | 0 | -1.787375225 | 0.414 | 0.781 | 0 | lobular | SLPI |
| ANXA1 | 0 | -1.812768301 | 0.514 | 0.771 | 0 | lobular | ANXA1 |
| PTN | 0 | -2.024538586 | 0.018 | 0.275 | 0 | lobular | PTN |
| TNFAIP6 | 0 | -2.151492186 | 0.114 | 0.357 | 0 | lobular | TNFAIP6 |
| MGP | 0 | -2.262830937 | 0.74 | 0.952 | 0 | lobular | MGP |
| CCL2 | 0 | -2.725122155 | 0.148 | 0.447 | 0 | lobular | CCL2 |
| HINT1 | 7.47E-306 | 0.728819844 | 0.68 | 0.472 | 1.80E-301 | lobular | HINT1 |
| EIF4A2 | 5.87E-304 | -0.785508174 | 0.644 | 0.787 | 1.41E-299 | lobular | EIF4A2 |
| PI3 | 7.87E-300 | -1.72874024 | 0.078 | 0.264 | 1.90E-295 | lobular | PI3 |
| GCNT2 | 2.02E-296 | 1.073512747 | 0.537 | 0.294 | 4.87E-292 | lobular | GCNT2 |
| PSMA4 | 2.62E-296 | -0.906113528 | 0.363 | 0.571 | 6.33E-292 | lobular | PSMA4 |
| MT-ND2 | 3.00E-296 | 0.425266432 | 0.988 | 0.959 | 7.23E-292 | lobular | MT-ND2 |
| SLC25A37 | 7.42E-296 | -1.012555721 | 0.298 | 0.533 | 1.79E-291 | lobular | SLC25A37 |
| EREG | 1.91E-295 | 1.129437377 | 0.349 | 0.119 | 4.60E-291 | lobular | EREG |
| RPS20 | 2.44E-295 | 0.931541542 | 0.924 | 0.925 | 5.89E-291 | lobular | RPS20 |
| PRSS23 | 8.79E-295 | 0.927162491 | 0.304 | 0.087 | 2.12E-290 | lobular | PRSS23 |
| RPL35 | 2.23E-292 | 0.547413043 | 0.371 | 0.12 | 5.38E-288 | lobular | RPL35 |

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|-----------|-----------|--------------|-------|-------|-----------|---------|------------|
| PTMA | 9.27E-285 | 0.70340638 | 0.703 | 0.487 | 2.23E-280 | lobular | PTMA |
| C8orf4 | 2.34E-284 | 0.70153973 | 0.635 | 0.332 | 5.64E-280 | lobular | C8orf4 |
| ALCAM | 1.91E-279 | 1.006126082 | 0.597 | 0.375 | 4.62E-275 | lobular | ALCAM |
| MT-CO3 | 4.71E-276 | 0.388237544 | 0.997 | 0.992 | 1.13E-271 | lobular | MT-CO3 |
| CPEB2 | 5.00E-274 | 0.918324418 | 0.397 | 0.167 | 1.21E-269 | lobular | CPEB2 |
| PRDX1 | 5.92E-274 | -0.869905189 | 0.637 | 0.765 | 1.43E-269 | lobular | PRDX1 |
| FAM129A | 7.40E-272 | -1.19688608 | 0.197 | 0.402 | 1.79E-267 | lobular | FAM129A |
| SLC26A3 | 2.34E-264 | -0.696763643 | 0.746 | 0.864 | 5.65E-260 | lobular | SLC26A3 |
| EFHD1 | 6.92E-264 | 0.853468492 | 0.386 | 0.162 | 1.67E-259 | lobular | EFHD1 |
| AFF3 | 3.93E-261 | 1.109166937 | 0.426 | 0.199 | 9.49E-257 | lobular | AFF3 |
| ARRDC3 | 2.60E-256 | -0.864813579 | 0.305 | 0.519 | 6.27E-252 | lobular | ARRDC3 |
| SEC62 | 5.01E-255 | -0.643444507 | 0.511 | 0.693 | 1.21E-250 | lobular | SEC62 |
| POMP | 2.82E-252 | -0.688236785 | 0.579 | 0.723 | 6.80E-248 | lobular | POMP |
| TNC | 6.45E-252 | 0.980565083 | 0.415 | 0.197 | 1.55E-247 | lobular | TNC |
| HSP90AB1 | 1.51E-249 | -0.582403055 | 0.807 | 0.895 | 3.65E-245 | lobular | HSP90AB1 |
| RPS7 | 1.32E-247 | -0.339920161 | 0.889 | 0.963 | 3.18E-243 | lobular | RPS7 |
| H2AFZ | 4.11E-246 | 0.742461407 | 0.733 | 0.568 | 9.92E-242 | lobular | H2AFZ |
| EFNA1 | 5.17E-246 | 0.902050068 | 0.316 | 0.115 | 1.25E-241 | lobular | EFNA1 |
| MYBPC1 | 1.35E-245 | 1.038135522 | 0.311 | 0.106 | 3.25E-241 | lobular | MYBPC1 |
| BIRC3 | 4.91E-244 | -0.74761515 | 0.543 | 0.73 | 1.18E-239 | lobular | BIRC3 |
| RAB11FIP1 | 1.68E-243 | 0.930657497 | 0.781 | 0.658 | 4.04E-239 | lobular | RAB11FIP1 |
| CXCL13 | 5.97E-243 | 0.648141877 | 0.5 | 0.269 | 1.44E-238 | lobular | CXCL13 |
| KIAA1324 | 1.14E-238 | 0.702053588 | 0.304 | 0.106 | 2.75E-234 | lobular | KIAA1324 |
| RPL9 | 8.72E-237 | -0.666902878 | 0.508 | 0.675 | 2.10E-232 | lobular | RPL9 |
| SMIM14 | 1.82E-236 | 0.781861995 | 0.48 | 0.269 | 4.39E-232 | lobular | SMIM14 |
| TBX3 | 2.11E-236 | 0.798212627 | 0.348 | 0.145 | 5.09E-232 | lobular | TBX3 |
| RPS6 | 4.18E-235 | -0.40453666 | 0.974 | 0.985 | 1.01E-230 | lobular | RPS6 |
| MAML2 | 4.28E-234 | -0.787481138 | 0.336 | 0.554 | 1.03E-229 | lobular | MAML2 |
| GLIS3 | 2.35E-231 | -0.801683136 | 0.099 | 0.265 | 5.66E-227 | lobular | GLIS3 |
| SLC28A3 | 4.17E-231 | -0.719107526 | 0.113 | 0.286 | 1.01E-226 | lobular | SLC28A3 |
| BTG1 | 1.39E-230 | 0.69733317 | 0.655 | 0.461 | 3.35E-226 | lobular | BTG1 |
| TSPAN5 | 2.32E-230 | 0.859026918 | 0.389 | 0.178 | 5.61E-226 | lobular | TSPAN5 |
| RASGEF1B | 1.14E-229 | -0.541126374 | 0.859 | 0.947 | 2.76E-225 | lobular | RASGEF1B |
| ADAMTS9 | 1.36E-229 | -1.003982756 | 0.144 | 0.329 | 3.29E-225 | lobular | ADAMTS9 |
| ST6GALNAI | 5.46E-228 | -0.975553795 | 0.122 | 0.297 | 1.32E-223 | lobular | ST6GALNAC5 |
| RNF181 | 6.48E-228 | -0.702127179 | 0.315 | 0.51 | 1.56E-223 | lobular | RNF181 |
| FXYD3 | 1.44E-225 | 0.739965568 | 0.704 | 0.518 | 3.47E-221 | lobular | FXYD3 |
| SLC7A2 | 6.79E-225 | 0.771745132 | 0.38 | 0.173 | 1.64E-220 | lobular | SLC7A2 |
| C15orf48 | 1.16E-224 | -1.303795184 | 0.436 | 0.606 | 2.80E-220 | lobular | C15orf48 |
| GABRP | 5.48E-223 | -0.873785178 | 0.195 | 0.385 | 1.32E-218 | lobular | GABRP |
| SNU13 | 3.13E-222 | 0.64135365 | 0.556 | 0.347 | 7.55E-218 | lobular | SNU13 |
| UGCG | 3.04E-220 | 0.679530662 | 0.569 | 0.36 | 7.34E-216 | lobular | UGCG |
| HNRNPA1 | 4.60E-219 | -0.665213457 | 0.713 | 0.836 | 1.11E-214 | lobular | HNRNPA1 |
| CPE | 3.62E-211 | 0.738412275 | 0.273 | 0.094 | 8.73E-207 | lobular | CPE |
| FGF13 | 7.94E-208 | 0.860223233 | 0.529 | 0.33 | 1.91E-203 | lobular | FGF13 |
| RPL11 | 2.21E-207 | -0.309488245 | 0.947 | 0.98 | 5.32E-203 | lobular | RPL11 |
| DYNLRB1 | 7.63E-205 | 0.557545789 | 0.391 | 0.186 | 1.84E-200 | lobular | DYNLRB1 |

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|-----------|-----------|--------------|-------|-------|-----------|---------|---------------|
| MAP3K13 | 3.14E-204 | -0.780528994 | 0.566 | 0.715 | 7.58E-200 | lobular | MAP3K13 |
| SOX4 | 4.06E-203 | 0.454278113 | 0.897 | 0.743 | 9.78E-199 | lobular | SOX4 |
| RPS17 | 9.15E-202 | -0.384511078 | 0.927 | 0.964 | 2.21E-197 | lobular | RPS17 |
| RPS27A | 3.48E-201 | -0.273840503 | 0.962 | 0.985 | 8.39E-197 | lobular | RPS27A |
| RPL37 | 4.54E-200 | -0.333427488 | 0.933 | 0.967 | 1.09E-195 | lobular | RPL37 |
| ANKS1B | 1.05E-199 | 0.768393564 | 0.536 | 0.338 | 2.52E-195 | lobular | ANKS1B |
| SELK | 9.39E-199 | -0.601320794 | 0.553 | 0.711 | 2.26E-194 | lobular | SELK |
| PSMA3 | 2.78E-198 | -0.672356934 | 0.272 | 0.452 | 6.71E-194 | lobular | PSMA3 |
| STAT5B | 4.42E-196 | 0.675069398 | 0.407 | 0.211 | 1.06E-191 | lobular | STAT5B |
| APBB2 | 3.66E-191 | 0.786350288 | 0.326 | 0.147 | 8.81E-187 | lobular | APBB2 |
| LINGO1 | 1.31E-190 | -0.48281975 | 0.86 | 0.938 | 3.16E-186 | lobular | LINGO1 |
| DAPP1 | 6.51E-188 | -0.770088616 | 0.181 | 0.347 | 1.57E-183 | lobular | DAPP1 |
| FBLN5 | 3.24E-184 | -1.165776883 | 0.112 | 0.259 | 7.82E-180 | lobular | FBLN5 |
| NDRG1 | 2.62E-183 | -0.749438558 | 0.286 | 0.465 | 6.32E-179 | lobular | NDRG1 |
| MAP3K1 | 3.19E-183 | 0.754777275 | 0.53 | 0.342 | 7.69E-179 | lobular | MAP3K1 |
| EPS8 | 4.78E-183 | -0.78619943 | 0.257 | 0.428 | 1.15E-178 | lobular | EPS8 |
| RPL31 | 2.16E-181 | -0.39557886 | 0.905 | 0.958 | 5.22E-177 | lobular | RPL31 |
| ITGAV | 6.23E-179 | 0.672675221 | 0.472 | 0.284 | 1.50E-174 | lobular | ITGAV |
| COMMD6 | 3.98E-178 | 0.543039763 | 0.428 | 0.236 | 9.60E-174 | lobular | COMMD6 |
| ACTN1 | 1.59E-177 | 0.65542962 | 0.415 | 0.226 | 3.83E-173 | lobular | ACTN1 |
| SAA1 | 9.97E-177 | 0.30023426 | 0.681 | 0.816 | 2.40E-172 | lobular | SAA1 |
| CCL20 | 3.93E-176 | -2.082814658 | 0.129 | 0.277 | 9.48E-172 | lobular | CCL20 |
| CALD1 | 1.76E-175 | -0.902221841 | 0.233 | 0.409 | 4.23E-171 | lobular | CALD1 |
| PSMB7 | 2.46E-175 | -0.639444538 | 0.394 | 0.554 | 5.92E-171 | lobular | PSMB7 |
| PSMC1 | 8.40E-175 | -0.596301598 | 0.218 | 0.384 | 2.03E-170 | lobular | PSMC1 |
| GNA12 | 2.83E-174 | -0.652016769 | 0.239 | 0.404 | 6.83E-170 | lobular | GNA12 |
| TAGLN2 | 2.90E-173 | 0.480140323 | 0.284 | 0.114 | 6.99E-169 | lobular | TAGLN2 |
| MYL12A | 1.24E-172 | -0.53777542 | 0.851 | 0.895 | 3.00E-168 | lobular | MYL12A |
| CTSB | 8.21E-172 | 0.626395151 | 0.357 | 0.183 | 1.98E-167 | lobular | CTSB |
| RP1-78O14 | 5.39E-171 | 0.876106024 | 0.265 | 0.106 | 1.30E-166 | lobular | RP1-78O14.1 |
| CD59 | 1.01E-169 | -0.686050045 | 0.874 | 0.897 | 2.44E-165 | lobular | CD59 |
| ELOVL5 | 1.02E-169 | 0.810120108 | 0.362 | 0.188 | 2.46E-165 | lobular | ELOVL5 |
| RP11-608O | 1.06E-169 | -0.631946125 | 0.476 | 0.645 | 2.55E-165 | lobular | RP11-608O21.1 |
| ARHGAP26 | 4.21E-169 | -0.595104939 | 0.611 | 0.761 | 1.01E-164 | lobular | ARHGAP26 |
| CA8 | 1.04E-168 | -0.791629386 | 0.177 | 0.336 | 2.50E-164 | lobular | CA8 |
| COX7C | 1.01E-167 | -0.346659587 | 0.856 | 0.902 | 2.43E-163 | lobular | COX7C |
| RPL30 | 1.82E-166 | -0.297807521 | 0.941 | 0.974 | 4.39E-162 | lobular | RPL30 |
| SEMA3C | 4.42E-166 | 0.751627584 | 0.346 | 0.174 | 1.07E-161 | lobular | SEMA3C |
| LYN | 7.63E-166 | -0.783722607 | 0.347 | 0.515 | 1.84E-161 | lobular | LYN |
| NEBL | 2.08E-165 | 0.654932969 | 0.72 | 0.571 | 5.01E-161 | lobular | NEBL |
| DUSP16 | 7.36E-165 | 0.624347037 | 0.491 | 0.31 | 1.77E-160 | lobular | DUSP16 |
| RPLP1 | 6.91E-164 | 0.278187617 | 0.359 | 0.174 | 1.67E-159 | lobular | RPLP1 |
| RPL23 | 4.93E-163 | -0.350625652 | 0.899 | 0.945 | 1.19E-158 | lobular | RPL23 |
| GSTM3 | 4.67E-162 | 0.885069579 | 0.394 | 0.222 | 1.13E-157 | lobular | GSTM3 |
| DNAJC12 | 1.51E-161 | 0.551734973 | 0.467 | 0.268 | 3.63E-157 | lobular | DNAJC12 |
| EFNA5 | 1.61E-161 | -0.728056884 | 0.221 | 0.385 | 3.88E-157 | lobular | EFNA5 |
| RPL12 | 2.38E-161 | 0.540548362 | 0.352 | 0.18 | 5.75E-157 | lobular | RPL12 |

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|----------|-----------|--------------|-------|-------|-----------|---------|----------|
| MT-ND4 | 1.01E-160 | 0.324124623 | 0.995 | 0.991 | 2.43E-156 | lobular | MT-ND4 |
| SLC39A6 | 1.82E-159 | 0.577589293 | 0.369 | 0.195 | 4.39E-155 | lobular | SLC39A6 |
| RPS9 | 2.00E-158 | 0.300883311 | 0.295 | 0.123 | 4.83E-154 | lobular | RPS9 |
| RSL24D1 | 2.40E-158 | -0.486832265 | 0.499 | 0.663 | 5.79E-154 | lobular | RSL24D1 |
| SLC27A4 | 2.82E-156 | -0.840966834 | 0.656 | 0.787 | 6.80E-152 | lobular | SLC27A4 |
| PSD3 | 1.83E-154 | 0.701994758 | 0.412 | 0.242 | 4.42E-150 | lobular | PSD3 |
| CYP7B1 | 2.76E-154 | -1.000354873 | 0.177 | 0.323 | 6.66E-150 | lobular | CYP7B1 |
| NCEH1 | 6.38E-154 | 0.746132164 | 0.476 | 0.313 | 1.54E-149 | lobular | NCEH1 |
| SUB1 | 1.02E-152 | -0.503317303 | 0.591 | 0.718 | 2.47E-148 | lobular | SUB1 |
| NACA | 1.25E-152 | -0.268387352 | 0.887 | 0.945 | 3.01E-148 | lobular | NACA |
| GAPDH | 3.79E-152 | 0.44928616 | 0.632 | 0.457 | 9.14E-148 | lobular | GAPDH |
| ERGIC3 | 3.93E-152 | 0.530297915 | 0.39 | 0.221 | 9.48E-148 | lobular | ERGIC3 |
| INSIG2 | 5.38E-152 | -0.61660419 | 0.158 | 0.303 | 1.30E-147 | lobular | INSIG2 |
| SSR3 | 4.93E-151 | -0.58985524 | 0.387 | 0.542 | 1.19E-146 | lobular | SSR3 |
| GLCCI1 | 7.04E-151 | 0.728450167 | 0.365 | 0.2 | 1.70E-146 | lobular | GLCCI1 |
| LUCAT1 | 3.73E-149 | -0.637170112 | 0.149 | 0.296 | 8.99E-145 | lobular | LUCAT1 |
| LIPH | 3.78E-149 | -1.104610882 | 0.257 | 0.401 | 9.12E-145 | lobular | LIPH |
| RPL35A | 1.09E-148 | -0.282018205 | 0.942 | 0.977 | 2.64E-144 | lobular | RPL35A |
| XBP1 | 2.05E-148 | 0.746720838 | 0.455 | 0.289 | 4.95E-144 | lobular | XBP1 |
| PHLDB2 | 4.67E-148 | 0.647152125 | 0.484 | 0.315 | 1.13E-143 | lobular | PHLDB2 |
| ZFP36L2 | 1.06E-147 | 0.580034539 | 0.441 | 0.26 | 2.56E-143 | lobular | ZFP36L2 |
| TBC1D9 | 9.49E-147 | 0.565678292 | 0.517 | 0.34 | 2.29E-142 | lobular | TBC1D9 |
| DSTN | 1.48E-146 | 0.571387199 | 0.645 | 0.486 | 3.57E-142 | lobular | DSTN |
| SYPL1 | 2.81E-146 | -0.545858312 | 0.315 | 0.469 | 6.79E-142 | lobular | SYPL1 |
| TMEM2 | 6.22E-146 | 0.705502468 | 0.412 | 0.244 | 1.50E-141 | lobular | TMEM2 |
| PIGR | 9.70E-146 | -0.798067409 | 0.193 | 0.345 | 2.34E-141 | lobular | PIGR |
| HSP90AA1 | 1.69E-144 | -0.428916187 | 0.829 | 0.898 | 4.07E-140 | lobular | HSP90AA1 |
| PVRL2 | 6.34E-144 | 0.594161244 | 0.346 | 0.185 | 1.53E-139 | lobular | PVRL2 |
| SNRPB2 | 7.90E-144 | -0.536304124 | 0.288 | 0.441 | 1.90E-139 | lobular | SNRPB2 |
| SRRM1 | 1.61E-143 | -0.508936276 | 0.483 | 0.629 | 3.89E-139 | lobular | SRRM1 |
| GLRX | 2.14E-143 | -0.720974518 | 0.232 | 0.384 | 5.15E-139 | lobular | GLRX |
| MORF4L1 | 4.26E-143 | -0.4640838 | 0.589 | 0.703 | 1.03E-138 | lobular | MORF4L1 |
| MDH1 | 5.42E-143 | -0.551516358 | 0.22 | 0.372 | 1.31E-138 | lobular | MDH1 |
| TJP1 | 5.77E-143 | 0.594108106 | 0.57 | 0.407 | 1.39E-138 | lobular | TJP1 |
| TPK1 | 6.84E-143 | -0.546156919 | 0.157 | 0.297 | 1.65E-138 | lobular | TPK1 |
| CFLAR | 1.22E-142 | -0.760128352 | 0.289 | 0.43 | 2.95E-138 | lobular | CFLAR |
| ITGA2 | 1.44E-141 | -0.787615698 | 0.335 | 0.483 | 3.48E-137 | lobular | ITGA2 |
| UGDH | 1.95E-141 | 0.67422724 | 0.295 | 0.144 | 4.71E-137 | lobular | UGDH |
| SHROOM3 | 4.02E-141 | 0.455570914 | 0.693 | 0.531 | 9.68E-137 | lobular | SHROOM3 |
| AIMP1 | 4.83E-140 | -0.579739894 | 0.247 | 0.397 | 1.16E-135 | lobular | AIMP1 |
| ERBB2IP | 2.34E-139 | 0.638782125 | 0.49 | 0.329 | 5.64E-135 | lobular | ERBB2IP |
| TCF12 | 6.08E-139 | 0.464128449 | 0.656 | 0.493 | 1.47E-134 | lobular | TCF12 |
| RPS24 | 4.56E-138 | -0.264749132 | 0.958 | 0.98 | 1.10E-133 | lobular | RPS24 |
| ZNF644 | 3.58E-137 | 0.620950011 | 0.533 | 0.371 | 8.62E-133 | lobular | ZNF644 |
| JUP | 7.12E-137 | 0.505519355 | 0.325 | 0.17 | 1.72E-132 | lobular | JUP |
| PAWR | 1.70E-136 | 0.552275913 | 0.611 | 0.45 | 4.10E-132 | lobular | PAWR |
| SARNP | 4.17E-136 | -0.521306309 | 0.149 | 0.285 | 1.00E-131 | lobular | SARNP |

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| NR6A1 | 6.70E-136 | 0.722521824 | 0.413 | 0.253 | 1.61E-131 | lobular | NR6A1 |
| SVIL | 3.67E-135 | -0.555515178 | 0.536 | 0.669 | 8.85E-131 | lobular | SVIL |
| HIPK2 | 5.11E-135 | 0.507886587 | 0.436 | 0.273 | 1.23E-130 | lobular | HIPK2 |
| RPL36AL | 6.20E-135 | -0.339714751 | 0.869 | 0.917 | 1.50E-130 | lobular | RPL36AL |
| INPP4B | 1.12E-134 | 0.574756628 | 0.395 | 0.224 | 2.69E-130 | lobular | INPP4B |
| ZBTB10 | 4.89E-134 | 0.563426585 | 0.315 | 0.164 | 1.18E-129 | lobular | ZBTB10 |
| USMG5 | 2.45E-133 | -0.388347795 | 0.577 | 0.718 | 5.91E-129 | lobular | USMG5 |
| SYTL2 | 4.96E-133 | 0.494628622 | 0.523 | 0.337 | 1.20E-128 | lobular | SYTL2 |
| TULP4 | 5.88E-133 | 0.496578411 | 0.564 | 0.399 | 1.42E-128 | lobular | TULP4 |
| GADD45A | 2.88E-132 | 0.591891956 | 0.325 | 0.173 | 6.95E-128 | lobular | GADD45A |
| TM4SF1 | 3.02E-132 | -0.820894879 | 0.901 | 0.917 | 7.27E-128 | lobular | TM4SF1 |
| DRAM1 | 1.10E-131 | 0.573174817 | 0.356 | 0.201 | 2.65E-127 | lobular | DRAM1 |
| MT-CYB | 2.91E-131 | 0.250290392 | 0.993 | 0.988 | 7.02E-127 | lobular | MT-CYB |
| TBL1XR1 | 1.27E-130 | 0.63412192 | 0.633 | 0.499 | 3.07E-126 | lobular | TBL1XR1 |
| LARP1B | 6.62E-129 | 0.596218661 | 0.271 | 0.132 | 1.60E-124 | lobular | LARP1B |
| DYNLL1 | 3.97E-128 | 0.51672953 | 0.301 | 0.154 | 9.57E-124 | lobular | DYNLL1 |
| MYL6 | 6.18E-128 | -0.43021124 | 0.925 | 0.95 | 1.49E-123 | lobular | MYL6 |
| BCAR3 | 1.29E-126 | 0.670881335 | 0.335 | 0.191 | 3.11E-122 | lobular | BCAR3 |
| SERPINA3 | 3.28E-126 | -0.719029256 | 0.216 | 0.35 | 7.90E-122 | lobular | SERPINA3 |
| BRK1 | 5.18E-126 | -0.43935 | 0.563 | 0.683 | 1.25E-121 | lobular | BRK1 |
| ATP5G2 | 8.93E-126 | 0.551158505 | 0.767 | 0.691 | 2.15E-121 | lobular | ATP5G2 |
| MBNL2 | 1.59E-125 | 0.492649112 | 0.603 | 0.446 | 3.84E-121 | lobular | MBNL2 |
| RPL13 | 2.89E-125 | 0.47869586 | 0.482 | 0.316 | 6.97E-121 | lobular | RPL13 |
| TOM1L2 | 3.21E-125 | 0.552212901 | 0.358 | 0.209 | 7.74E-121 | lobular | TOM1L2 |
| RERE | 4.49E-125 | 0.481728123 | 0.628 | 0.478 | 1.08E-120 | lobular | RERE |
| DDX24 | 1.23E-123 | -0.530661633 | 0.46 | 0.586 | 2.96E-119 | lobular | DDX24 |
| FRMD4A | 1.68E-123 | -0.691605137 | 0.226 | 0.365 | 4.05E-119 | lobular | FRMD4A |
| RPL13A | 3.21E-123 | 0.341798005 | 0.546 | 0.369 | 7.74E-119 | lobular | RPL13A |
| RPL36 | 8.14E-123 | 0.43168049 | 0.254 | 0.112 | 1.96E-118 | lobular | RPL36 |
| ELF3 | 1.76E-122 | 0.452200548 | 0.574 | 0.415 | 4.25E-118 | lobular | ELF3 |
| WTAP | 1.93E-121 | -0.766635443 | 0.469 | 0.592 | 4.64E-117 | lobular | WTAP |
| TNFAIP8 | 7.17E-120 | -0.624425884 | 0.334 | 0.476 | 1.73E-115 | lobular | TNFAIP8 |
| DLGAP1 | 2.04E-118 | 0.65102927 | 0.255 | 0.123 | 4.92E-114 | lobular | DLGAP1 |
| CCNI | 2.97E-118 | 0.376346244 | 0.684 | 0.536 | 7.15E-114 | lobular | CCNI |
| NEDD9 | 5.73E-118 | 0.476799396 | 0.433 | 0.274 | 1.38E-113 | lobular | NEDD9 |
| GOLM1 | 3.39E-117 | 0.515295912 | 0.287 | 0.15 | 8.17E-113 | lobular | GOLM1 |
| CCL28 | 5.25E-116 | -0.535635641 | 0.308 | 0.464 | 1.27E-111 | lobular | CCL28 |
| C8orf37-AS | 7.76E-116 | -0.455944106 | 0.196 | 0.332 | 1.87E-111 | lobular | C8orf37-AS1 |
| NUB1 | 1.54E-115 | -0.669692942 | 0.148 | 0.269 | 3.71E-111 | lobular | NUB1 |
| PCBP2 | 2.40E-115 | 0.396421323 | 0.628 | 0.478 | 5.79E-111 | lobular | PCBP2 |
| FUT8 | 2.82E-115 | 0.614195043 | 0.314 | 0.175 | 6.80E-111 | lobular | FUT8 |
| IGF2BP2 | 4.09E-115 | -0.678612181 | 0.223 | 0.355 | 9.87E-111 | lobular | IGF2BP2 |
| UQCR10 | 1.14E-114 | 0.486704002 | 0.564 | 0.417 | 2.76E-110 | lobular | UQCR10 |
| BCL2 | 1.20E-114 | 0.752650286 | 0.326 | 0.189 | 2.90E-110 | lobular | BCL2 |
| APLP2 | 2.11E-114 | 0.488435287 | 0.332 | 0.192 | 5.08E-110 | lobular | APLP2 |
| 7-Sep | 3.16E-114 | -0.479972235 | 0.324 | 0.461 | 7.62E-110 | lobular | 7-Sep |
| OPHN1 | 5.42E-114 | 0.615259305 | 0.385 | 0.238 | 1.31E-109 | lobular | OPHN1 |

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| PAN3 | 7.51E-114 | 0.448872024 | 0.691 | 0.552 | 1.81E-109 | lobular | PAN3 |
| CHCHD3 | 2.19E-113 | 0.424683539 | 0.855 | 0.807 | 5.28E-109 | lobular | CHCHD3 |
| TCEANC2 | 2.38E-113 | -0.474153791 | 0.191 | 0.324 | 5.75E-109 | lobular | TCEANC2 |
| RAPH1 | 6.09E-113 | 0.588253214 | 0.391 | 0.25 | 1.47E-108 | lobular | RAPH1 |
| ARHGEF12 | 1.14E-112 | 0.409701619 | 0.637 | 0.481 | 2.76E-108 | lobular | ARHGEF12 |
| THRB | 2.48E-111 | 0.632787913 | 0.513 | 0.377 | 5.99E-107 | lobular | THRB |
| COX7A2 | 3.31E-111 | -0.359896281 | 0.736 | 0.81 | 7.98E-107 | lobular | COX7A2 |
| PDCD10 | 6.96E-111 | -0.485007289 | 0.205 | 0.334 | 1.68E-106 | lobular | PDCD10 |
| PCBP1 | 2.69E-110 | 0.405904835 | 0.563 | 0.411 | 6.48E-106 | lobular | PCBP1 |
| MT-ND3 | 5.06E-110 | 0.363454835 | 0.993 | 0.978 | 1.22E-105 | lobular | MT-ND3 |
| TMEM258 | 1.28E-109 | -0.388372324 | 0.56 | 0.667 | 3.09E-105 | lobular | TMEM258 |
| CCT5 | 2.48E-109 | -0.545364241 | 0.249 | 0.377 | 5.98E-105 | lobular | CCT5 |
| EIF3E | 5.84E-109 | -0.336318686 | 0.517 | 0.675 | 1.41E-104 | lobular | EIF3E |
| DAD1 | 2.53E-108 | -0.438874664 | 0.452 | 0.574 | 6.10E-104 | lobular | DAD1 |
| NFKBIZ | 3.46E-108 | -0.567429197 | 0.521 | 0.626 | 8.35E-104 | lobular | NFKBIZ |
| CLDN1 | 8.19E-108 | -0.86016884 | 0.184 | 0.304 | 1.98E-103 | lobular | CLDN1 |
| RORA | 4.86E-107 | 0.629302975 | 0.622 | 0.494 | 1.17E-102 | lobular | RORA |
| ILF2 | 5.15E-107 | -0.516245772 | 0.383 | 0.512 | 1.24E-102 | lobular | ILF2 |
| NEDD4L | 5.29E-107 | 0.534585889 | 0.651 | 0.514 | 1.27E-102 | lobular | NEDD4L |
| PSMC2 | 4.61E-106 | -0.408126065 | 0.173 | 0.299 | 1.11E-101 | lobular | PSMC2 |
| MAGI3 | 5.35E-106 | 0.494083714 | 0.439 | 0.294 | 1.29E-101 | lobular | MAGI3 |
| VPS29 | 1.19E-105 | -0.479581926 | 0.273 | 0.403 | 2.86E-101 | lobular | VPS29 |
| WFDC2 | 8.07E-104 | -1.256736964 | 0.277 | 0.407 | 1.95E-99 | lobular | WFDC2 |
| IK | 1.37E-102 | -0.403866628 | 0.143 | 0.261 | 3.31E-98 | lobular | IK |
| UBB | 6.19E-102 | -0.313924224 | 0.685 | 0.784 | 1.49E-97 | lobular | UBB |
| RPL29 | 2.18E-101 | 0.450430826 | 0.288 | 0.152 | 5.26E-97 | lobular | RPL29 |
| KTN1 | 6.26E-101 | 0.45900334 | 0.593 | 0.461 | 1.51E-96 | lobular | KTN1 |
| RARRES3 | 2.16E-100 | -0.551553656 | 0.176 | 0.294 | 5.22E-96 | lobular | RARRES3 |
| KIAA1522 | 2.52E-100 | 0.404204919 | 0.279 | 0.15 | 6.08E-96 | lobular | KIAA1522 |
| TAOK3 | 6.55E-100 | 0.453811172 | 0.527 | 0.389 | 1.58E-95 | lobular | TAOK3 |
| GSPT1 | 8.14E-100 | 0.471803867 | 0.421 | 0.286 | 1.96E-95 | lobular | GSPT1 |
| TANK | 1.43E-99 | -0.469647042 | 0.429 | 0.552 | 3.45E-95 | lobular | TANK |
| HIST1H2AC | 2.27E-99 | 0.404669815 | 0.422 | 0.274 | 5.47E-95 | lobular | HIST1H2AC |
| RANBP9 | 2.45E-99 | 0.445225884 | 0.35 | 0.217 | 5.91E-95 | lobular | RANBP9 |
| BCL6 | 2.47E-99 | 0.475456504 | 0.412 | 0.272 | 5.96E-95 | lobular | BCL6 |
| GBP2 | 7.89E-99 | -0.521539881 | 0.578 | 0.679 | 1.90E-94 | lobular | GBP2 |
| DEFB1 | 3.33E-98 | -0.324502309 | 0.382 | 0.538 | 8.03E-94 | lobular | DEFB1 |
| MYH9 | 3.38E-98 | 0.429572375 | 0.571 | 0.425 | 8.16E-94 | lobular | MYH9 |
| FLNB | 4.39E-98 | 0.441549362 | 0.515 | 0.365 | 1.06E-93 | lobular | FLNB |
| EGFR | 1.29E-97 | -0.501522331 | 0.138 | 0.25 | 3.12E-93 | lobular | EGFR |
| PRLR | 1.56E-97 | 0.50541528 | 0.285 | 0.16 | 3.75E-93 | lobular | PRLR |
| DGKH | 6.04E-97 | 0.535177422 | 0.359 | 0.228 | 1.46E-92 | lobular | DGKH |
| OOEP | 1.05E-96 | -0.26003172 | 0.958 | 0.978 | 2.53E-92 | lobular | OOEP |
| C4orf3 | 1.21E-96 | -0.422379174 | 0.493 | 0.61 | 2.91E-92 | lobular | C4orf3 |
| SLIRP | 2.50E-96 | -0.386596175 | 0.261 | 0.394 | 6.03E-92 | lobular | SLIRP |
| COL4A5 | 5.63E-96 | 0.476551275 | 0.267 | 0.145 | 1.36E-91 | lobular | COL4A5 |
| KCTD9 | 5.71E-96 | -0.569250056 | 0.192 | 0.306 | 1.38E-91 | lobular | KCTD9 |

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| SSBP1 | 7.12E-96 | -0.491813825 | 0.317 | 0.436 | 1.72E-91 | lobular | SSBP1 |
| UBL5 | 1.12E-95 | 0.527060584 | 0.554 | 0.439 | 2.71E-91 | lobular | UBL5 |
| LRBA | 1.72E-95 | 0.419550399 | 0.689 | 0.559 | 4.15E-91 | lobular | LRBA |
| PKP4 | 2.02E-95 | 0.447764536 | 0.555 | 0.419 | 4.87E-91 | lobular | PKP4 |
| FARP1 | 2.55E-95 | 0.44578121 | 0.434 | 0.294 | 6.16E-91 | lobular | FARP1 |
| AGR2 | 2.57E-95 | 0.30205311 | 0.296 | 0.161 | 6.20E-91 | lobular | AGR2 |
| CDCP1 | 3.00E-95 | -0.480003646 | 0.234 | 0.355 | 7.24E-91 | lobular | CDCP1 |
| SSBP2 | 1.39E-94 | 0.548998443 | 0.486 | 0.358 | 3.36E-90 | lobular | SSBP2 |
| ENAH | 1.94E-94 | 0.382229916 | 0.606 | 0.467 | 4.67E-90 | lobular | ENAH |
| ATP8B1 | 2.53E-94 | 0.563727092 | 0.454 | 0.325 | 6.10E-90 | lobular | ATP8B1 |
| ACTB | 1.36E-93 | 0.504181829 | 0.691 | 0.566 | 3.29E-89 | lobular | ACTB |
| NCOA7 | 1.69E-93 | -0.528021603 | 0.392 | 0.523 | 4.07E-89 | lobular | NCOA7 |
| TAX1BP1 | 7.84E-93 | -0.387708739 | 0.591 | 0.683 | 1.89E-88 | lobular | TAX1BP1 |
| KLHL5 | 1.35E-92 | 0.49024559 | 0.333 | 0.21 | 3.26E-88 | lobular | KLHL5 |
| INO80D | 1.47E-92 | -0.433569653 | 0.525 | 0.643 | 3.55E-88 | lobular | INO80D |
| INTS6 | 2.42E-92 | 0.482099005 | 0.331 | 0.205 | 5.83E-88 | lobular | INTS6 |
| RBM8A | 2.64E-92 | -0.451991592 | 0.388 | 0.504 | 6.37E-88 | lobular | RBM8A |
| UGP2 | 1.13E-91 | -0.445413039 | 0.393 | 0.51 | 2.72E-87 | lobular | UGP2 |
| RASEF | 1.14E-91 | 0.443556131 | 0.322 | 0.195 | 2.74E-87 | lobular | RASEF |
| RNF145 | 2.85E-91 | -0.510498639 | 0.293 | 0.416 | 6.88E-87 | lobular | RNF145 |
| ERH | 1.18E-90 | -0.431215201 | 0.467 | 0.572 | 2.83E-86 | lobular | ERH |
| MTHFD2L | 3.89E-90 | -0.686735803 | 0.359 | 0.476 | 9.38E-86 | lobular | MTHFD2L |
| KAZN | 7.31E-90 | 0.478279517 | 0.263 | 0.146 | 1.76E-85 | lobular | KAZN |
| GAB1 | 1.03E-89 | 0.405442753 | 0.437 | 0.302 | 2.48E-85 | lobular | GAB1 |
| CUX1 | 1.40E-89 | 0.453569364 | 0.399 | 0.271 | 3.38E-85 | lobular | CUX1 |
| CD24 | 1.60E-89 | 0.490042078 | 0.628 | 0.502 | 3.87E-85 | lobular | CD24 |
| REEP5 | 3.74E-89 | 0.419704702 | 0.3 | 0.179 | 9.03E-85 | lobular | REEP5 |
| C16orf45 | 1.21E-88 | 0.490665897 | 0.274 | 0.157 | 2.91E-84 | lobular | C16orf45 |
| LDHA | 1.48E-88 | -0.40430431 | 0.631 | 0.732 | 3.57E-84 | lobular | LDHA |
| NAALADL2 | 2.03E-88 | 0.519389727 | 0.55 | 0.428 | 4.90E-84 | lobular | NAALADL2 |
| LPP | 2.62E-88 | 0.283221099 | 0.933 | 0.886 | 6.33E-84 | lobular | LPP |
| ATP6V0E1 | 4.02E-88 | 0.336563524 | 0.734 | 0.628 | 9.69E-84 | lobular | ATP6V0E1 |
| UBN2 | 9.17E-88 | 0.422434202 | 0.323 | 0.197 | 2.21E-83 | lobular | UBN2 |
| WWC1 | 3.70E-87 | 0.425853786 | 0.47 | 0.337 | 8.91E-83 | lobular | WWC1 |
| GNB1 | 5.04E-87 | 0.376568774 | 0.395 | 0.266 | 1.22E-82 | lobular | GNB1 |
| RPLP2 | 9.97E-87 | 0.272581828 | 0.273 | 0.149 | 2.40E-82 | lobular | RPLP2 |
| RPS16 | 1.19E-86 | 0.269740605 | 0.361 | 0.225 | 2.87E-82 | lobular | RPS16 |
| OSBPL3 | 1.76E-86 | 0.430694264 | 0.277 | 0.159 | 4.25E-82 | lobular | OSBPL3 |
| DDX18 | 2.43E-86 | -0.452548244 | 0.247 | 0.362 | 5.86E-82 | lobular | DDX18 |
| BTRC | 2.85E-86 | 0.418013619 | 0.311 | 0.188 | 6.87E-82 | lobular | BTRC |
| DCTN6 | 6.92E-86 | -0.410005218 | 0.236 | 0.353 | 1.67E-81 | lobular | DCTN6 |
| MTRNR2L1 | 1.45E-85 | -0.445570476 | 0.182 | 0.296 | 3.49E-81 | lobular | MTRNR2L12 |
| ATP6V1D | 5.48E-85 | -0.447507412 | 0.234 | 0.348 | 1.32E-80 | lobular | ATP6V1D |
| NOS1AP | 7.35E-85 | 0.392018069 | 0.262 | 0.146 | 1.77E-80 | lobular | NOS1AP |
| ARIH1 | 7.94E-85 | 0.358342719 | 0.558 | 0.428 | 1.91E-80 | lobular | ARIH1 |
| CADPS2 | 2.76E-84 | 0.812529508 | 0.45 | 0.33 | 6.65E-80 | lobular | CADPS2 |
| ACSL3 | 5.42E-84 | 0.502507057 | 0.385 | 0.259 | 1.31E-79 | lobular | ACSL3 |

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| DLG5 | 1.56E-83 | 0.507795065 | 0.308 | 0.191 | 3.77E-79 | lobular | DLG5 |
| PSMB5 | 1.88E-83 | 0.342252129 | 0.286 | 0.168 | 4.53E-79 | lobular | PSMB5 |
| DNAJB6 | 2.07E-83 | 0.410855487 | 0.432 | 0.304 | 5.00E-79 | lobular | DNAJB6 |
| ARF4 | 3.74E-83 | -0.381664297 | 0.587 | 0.675 | 9.03E-79 | lobular | ARF4 |
| CDH1 | 6.26E-83 | 0.381034973 | 0.651 | 0.533 | 1.51E-78 | lobular | CDH1 |
| STOM | 1.00E-82 | 0.483360414 | 0.307 | 0.191 | 2.42E-78 | lobular | STOM |
| CDK13 | 1.37E-82 | 0.469812038 | 0.472 | 0.348 | 3.31E-78 | lobular | CDK13 |
| ESD | 1.40E-82 | -0.409925162 | 0.271 | 0.39 | 3.37E-78 | lobular | ESD |
| EIF3H | 2.27E-82 | 0.356386075 | 0.662 | 0.566 | 5.47E-78 | lobular | EIF3H |
| PROM1 | 4.06E-82 | -0.482184222 | 0.187 | 0.298 | 9.79E-78 | lobular | PROM1 |
| FNBP1 | 9.27E-82 | 0.358976005 | 0.579 | 0.443 | 2.24E-77 | lobular | FNBP1 |
| ZNF292 | 1.22E-81 | -0.380201177 | 0.526 | 0.631 | 2.94E-77 | lobular | ZNF292 |
| MAP4 | 1.45E-81 | 0.382585727 | 0.53 | 0.402 | 3.51E-77 | lobular | MAP4 |
| MSI2 | 1.88E-81 | 0.421525241 | 0.391 | 0.268 | 4.54E-77 | lobular | MSI2 |
| BARX2 | 3.33E-81 | -0.576248021 | 0.212 | 0.318 | 8.03E-77 | lobular | BARX2 |
| SLC38A2 | 4.41E-81 | 0.448864111 | 0.432 | 0.302 | 1.06E-76 | lobular | SLC38A2 |
| SLC4A7 | 4.57E-81 | -0.460169691 | 0.239 | 0.353 | 1.10E-76 | lobular | SLC4A7 |
| FEZ2 | 5.04E-81 | -0.524341362 | 0.301 | 0.409 | 1.22E-76 | lobular | FEZ2 |
| HERC4 | 6.71E-81 | 0.4540561 | 0.574 | 0.454 | 1.62E-76 | lobular | HERC4 |
| GSK3B | 8.18E-81 | 0.404604487 | 0.448 | 0.322 | 1.97E-76 | lobular | GSK3B |
| SLCO3A1 | 1.91E-80 | -0.456573255 | 0.148 | 0.25 | 4.60E-76 | lobular | SLCO3A1 |
| SPRED2 | 6.08E-80 | 0.403690653 | 0.255 | 0.145 | 1.47E-75 | lobular | SPRED2 |
| RUFY3 | 6.68E-80 | 0.359411244 | 0.284 | 0.168 | 1.61E-75 | lobular | RUFY3 |
| ZCCHC17 | 7.01E-80 | -0.442164769 | 0.219 | 0.327 | 1.69E-75 | lobular | ZCCHC17 |
| ZFAND3 | 1.14E-79 | 0.379621661 | 0.79 | 0.714 | 2.76E-75 | lobular | ZFAND3 |
| C1QTNF3- <i>A</i> | 3.19E-79 | 0.470015208 | 0.366 | 0.244 | 7.70E-75 | lobular | C1QTNF3-AMACR |
| EIF2S1 | 3.21E-79 | -0.410920679 | 0.162 | 0.264 | 7.74E-75 | lobular | EIF2S1 |
| UBE2V2 | 7.87E-79 | -0.396879293 | 0.211 | 0.319 | 1.90E-74 | lobular | UBE2V2 |
| AC072062.1 | 1.10E-78 | 0.377281525 | 0.523 | 0.391 | 2.66E-74 | lobular | AC072062.1 |
| PPP6R3 | 2.58E-78 | 0.37005294 | 0.555 | 0.434 | 6.22E-74 | lobular | PPP6R3 |
| MKL1 | 6.95E-78 | 0.355053666 | 0.546 | 0.417 | 1.68E-73 | lobular | MKL1 |
| DYNLT1 | 8.66E-78 | -0.42050235 | 0.567 | 0.644 | 2.09E-73 | lobular | DYNLT1 |
| DLEU2 | 1.56E-77 | 0.402673056 | 0.264 | 0.155 | 3.75E-73 | lobular | DLEU2 |
| SRSF3 | 3.37E-77 | -0.565243137 | 0.396 | 0.496 | 8.13E-73 | lobular | SRSF3 |
| TTL5 | 4.53E-77 | 0.43249548 | 0.328 | 0.212 | 1.09E-72 | lobular | TTL5 |
| TSC22D2 | 5.79E-77 | 0.356861176 | 0.518 | 0.386 | 1.40E-72 | lobular | TSC22D2 |
| SH3BGRL | 4.25E-76 | 0.447215606 | 0.448 | 0.329 | 1.02E-71 | lobular | SH3BGRL |
| FOXP1 | 6.62E-76 | 0.424250935 | 0.673 | 0.574 | 1.60E-71 | lobular | FOXP1 |
| CTNND1 | 9.54E-76 | 0.345144908 | 0.444 | 0.319 | 2.30E-71 | lobular | CTNND1 |
| MAST4 | 1.00E-75 | 0.434557449 | 0.575 | 0.454 | 2.42E-71 | lobular | MAST4 |
| RBM47 | 1.29E-75 | 0.349722532 | 0.681 | 0.566 | 3.11E-71 | lobular | RBM47 |
| TBL1X | 2.32E-75 | 0.340851443 | 0.259 | 0.149 | 5.60E-71 | lobular | TBL1X |
| SUSD6 | 3.32E-75 | 0.386732495 | 0.324 | 0.208 | 8.01E-71 | lobular | SUSD6 |
| RP1-292B1 | 6.50E-75 | 0.301038952 | 0.257 | 0.146 | 1.57E-70 | lobular | RP1-292B18.4 |
| YTHDC1 | 8.49E-75 | 0.37700193 | 0.432 | 0.309 | 2.05E-70 | lobular | YTHDC1 |
| ANKRD11 | 9.31E-75 | 0.33368852 | 0.368 | 0.246 | 2.24E-70 | lobular | ANKRD11 |
| EIF4A1 | 1.36E-73 | -0.428739541 | 0.364 | 0.472 | 3.27E-69 | lobular | EIF4A1 |

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| NHSL2 | 1.57E-73 | -0.378770636 | 0.24 | 0.349 | 3.80E-69 | lobular | NHSL2 |
| COX7B | 9.38E-73 | -0.336622942 | 0.605 | 0.682 | 2.26E-68 | lobular | COX7B |
| DUSP10 | 1.28E-72 | 0.400883575 | 0.265 | 0.16 | 3.09E-68 | lobular | DUSP10 |
| PRRG4 | 2.48E-72 | 0.363336491 | 0.308 | 0.195 | 5.99E-68 | lobular | PRRG4 |
| ATP6V1G1 | 2.70E-72 | 0.328154719 | 0.437 | 0.315 | 6.50E-68 | lobular | ATP6V1G1 |
| ADAM32 | 1.00E-71 | 0.424609956 | 0.272 | 0.164 | 2.42E-67 | lobular | ADAM32 |
| EIF3K | 1.21E-71 | 0.550467978 | 0.367 | 0.274 | 2.92E-67 | lobular | EIF3K |
| GPBP1 | 3.55E-71 | 0.392882748 | 0.722 | 0.635 | 8.56E-67 | lobular | GPBP1 |
| KAT6B | 5.29E-71 | 0.37503208 | 0.3 | 0.189 | 1.28E-66 | lobular | KAT6B |
| CTC-471J1.1 | 7.00E-71 | -0.67169315 | 0.624 | 0.658 | 1.69E-66 | lobular | CTC-471J1.9 |
| ARPC3 | 7.82E-71 | -0.360661854 | 0.64 | 0.7 | 1.89E-66 | lobular | ARPC3 |
| ARFGEF2 | 1.20E-70 | 0.364197836 | 0.419 | 0.299 | 2.90E-66 | lobular | ARFGEF2 |
| OSBPL8 | 2.18E-70 | 0.376032448 | 0.281 | 0.174 | 5.26E-66 | lobular | OSBPL8 |
| KLHL24 | 2.24E-70 | 0.316633558 | 0.398 | 0.276 | 5.39E-66 | lobular | KLHL24 |
| ATF4 | 3.34E-70 | 0.351201588 | 0.442 | 0.323 | 8.05E-66 | lobular | ATF4 |
| CNOT4 | 9.94E-70 | 0.329247608 | 0.447 | 0.325 | 2.40E-65 | lobular | CNOT4 |
| CREBBP | 2.05E-69 | 0.330113735 | 0.345 | 0.23 | 4.95E-65 | lobular | CREBBP |
| CDC42BPA | 3.63E-69 | 0.377587903 | 0.428 | 0.31 | 8.75E-65 | lobular | CDC42BPA |
| KCMF1 | 4.18E-69 | 0.348701844 | 0.383 | 0.265 | 1.01E-64 | lobular | KCMF1 |
| HNRNPM | 8.59E-69 | 0.332364696 | 0.305 | 0.195 | 2.07E-64 | lobular | HNRNPM |
| YAP1 | 1.09E-68 | 0.337252193 | 0.579 | 0.462 | 2.63E-64 | lobular | YAP1 |
| RTCB | 1.74E-68 | -0.386129845 | 0.371 | 0.474 | 4.20E-64 | lobular | RTCB |
| UFM1 | 2.73E-68 | -0.384581761 | 0.287 | 0.391 | 6.59E-64 | lobular | UFM1 |
| ITGB8 | 3.82E-68 | -0.440922639 | 0.461 | 0.559 | 9.20E-64 | lobular | ITGB8 |
| ZFAS1 | 4.18E-68 | -0.267848021 | 0.915 | 0.951 | 1.01E-63 | lobular | ZFAS1 |
| SMARCC1 | 6.15E-68 | 0.335814414 | 0.334 | 0.222 | 1.48E-63 | lobular | SMARCC1 |
| RP5-857K2 | 6.73E-68 | 0.328233908 | 0.481 | 0.359 | 1.62E-63 | lobular | RP5-857K21.4 |
| RPL41 | 8.17E-68 | -0.679637482 | 0.882 | 0.938 | 1.97E-63 | lobular | RPL41 |
| BACE2 | 1.25E-67 | -0.43387141 | 0.275 | 0.377 | 3.03E-63 | lobular | BACE2 |
| CFL1 | 1.42E-67 | 0.411913007 | 0.359 | 0.251 | 3.42E-63 | lobular | CFL1 |
| EEF2 | 3.38E-67 | 0.41170816 | 0.458 | 0.333 | 8.15E-63 | lobular | EEF2 |
| POLR1D | 3.41E-67 | 0.319631971 | 0.265 | 0.163 | 8.22E-63 | lobular | POLR1D |
| TOP1 | 6.79E-67 | 0.333556748 | 0.491 | 0.375 | 1.64E-62 | lobular | TOP1 |
| DPM1 | 7.65E-67 | -0.36594229 | 0.207 | 0.307 | 1.84E-62 | lobular | DPM1 |
| TIAM1 | 9.15E-67 | -0.549401867 | 0.207 | 0.304 | 2.21E-62 | lobular | TIAM1 |
| CD63 | 1.28E-66 | 0.394953942 | 0.425 | 0.315 | 3.08E-62 | lobular | CD63 |
| UBE2G1 | 1.31E-66 | 0.326361973 | 0.299 | 0.191 | 3.17E-62 | lobular | UBE2G1 |
| BRD2 | 1.94E-66 | 0.338173464 | 0.311 | 0.204 | 4.69E-62 | lobular | BRD2 |
| SDC4 | 2.14E-66 | -0.612065958 | 0.295 | 0.388 | 5.15E-62 | lobular | SDC4 |
| UBR5 | 2.45E-66 | 0.322630938 | 0.516 | 0.398 | 5.92E-62 | lobular | UBR5 |
| OTUD7B | 2.59E-66 | 0.360230716 | 0.338 | 0.227 | 6.24E-62 | lobular | OTUD7B |
| FGD6 | 2.72E-66 | 0.371667258 | 0.388 | 0.276 | 6.55E-62 | lobular | FGD6 |
| GBE1 | 2.78E-66 | -0.512521194 | 0.322 | 0.424 | 6.69E-62 | lobular | GBE1 |
| COX6C | 3.26E-66 | 0.689053859 | 0.769 | 0.754 | 7.87E-62 | lobular | COX6C |
| USP47 | 3.64E-66 | 0.366079634 | 0.466 | 0.35 | 8.78E-62 | lobular | USP47 |
| WNK1 | 4.52E-66 | 0.31773578 | 0.282 | 0.178 | 1.09E-61 | lobular | WNK1 |
| SNRPD1 | 5.07E-66 | -0.396256697 | 0.249 | 0.35 | 1.22E-61 | lobular | SNRPD1 |

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| EIF3L | 5.16E-66 | -0.27701116 | 0.547 | 0.662 | 1.25E-61 | lobular | EIF3L |
| KIF13A | 6.49E-66 | 0.437381135 | 0.44 | 0.326 | 1.56E-61 | lobular | KIF13A |
| CNKS3 | 7.26E-66 | -0.693051529 | 0.274 | 0.366 | 1.75E-61 | lobular | CNKS3 |
| TMEM150C | 2.56E-65 | -0.357798725 | 0.173 | 0.265 | 6.17E-61 | lobular | TMEM150C |
| CCT2 | 9.07E-65 | -0.391327021 | 0.267 | 0.366 | 2.19E-60 | lobular | CCT2 |
| SLC38A1 | 1.28E-64 | 0.348888963 | 0.437 | 0.325 | 3.10E-60 | lobular | SLC38A1 |
| PRDX3 | 1.71E-64 | 0.345133623 | 0.264 | 0.164 | 4.12E-60 | lobular | PRDX3 |
| RPL7 | 3.97E-64 | 0.345036864 | 0.835 | 0.946 | 9.57E-60 | lobular | RPL7 |
| PDZD8 | 5.26E-64 | 0.382455811 | 0.27 | 0.171 | 1.27E-59 | lobular | PDZD8 |
| S100A6 | 1.22E-63 | 0.828898269 | 0.601 | 0.532 | 2.93E-59 | lobular | S100A6 |
| SSR2 | 1.59E-63 | -0.285113826 | 0.658 | 0.733 | 3.84E-59 | lobular | SSR2 |
| VAV3 | 3.74E-63 | 0.390812032 | 0.327 | 0.222 | 9.03E-59 | lobular | VAV3 |
| 15-Sep | 3.81E-63 | -0.370064982 | 0.38 | 0.473 | 9.19E-59 | lobular | 15-Sep |
| RBX1 | 4.11E-63 | -0.365587557 | 0.406 | 0.497 | 9.92E-59 | lobular | RBX1 |
| SARAF | 1.10E-62 | 0.291143604 | 0.398 | 0.282 | 2.64E-58 | lobular | SARAF |
| ZSWIM6 | 1.24E-62 | 0.367812514 | 0.54 | 0.432 | 2.98E-58 | lobular | ZSWIM6 |
| ASH1L | 1.94E-62 | 0.3261521 | 0.593 | 0.484 | 4.67E-58 | lobular | ASH1L |
| EIF1 | 7.46E-62 | 0.296656839 | 0.526 | 0.408 | 1.80E-57 | lobular | EIF1 |
| C8orf59 | 1.37E-61 | -0.336580474 | 0.25 | 0.35 | 3.31E-57 | lobular | C8orf59 |
| IGF1R | 1.75E-61 | 0.316766544 | 0.548 | 0.433 | 4.22E-57 | lobular | IGF1R |
| KYNU | 2.49E-61 | -0.772374108 | 0.208 | 0.301 | 6.01E-57 | lobular | KYNU |
| HNRNPH2 | 2.50E-61 | -0.332533779 | 0.191 | 0.286 | 6.04E-57 | lobular | HNRNPH2 |
| SLC12A2 | 2.58E-61 | -0.590868554 | 0.377 | 0.466 | 6.23E-57 | lobular | SLC12A2 |
| SEMA6A | 2.60E-61 | -0.570973372 | 0.19 | 0.28 | 6.27E-57 | lobular | SEMA6A |
| ZRANB2 | 2.91E-61 | -0.359761058 | 0.198 | 0.291 | 7.02E-57 | lobular | ZRANB2 |
| ELF2 | 3.10E-61 | 0.353852976 | 0.431 | 0.322 | 7.48E-57 | lobular | ELF2 |
| EP300 | 3.18E-61 | 0.321342561 | 0.258 | 0.161 | 7.68E-57 | lobular | EP300 |
| PAM | 5.20E-61 | -0.376534008 | 0.433 | 0.527 | 1.25E-56 | lobular | PAM |
| AHNAK | 1.30E-60 | 0.333898468 | 0.399 | 0.29 | 3.14E-56 | lobular | AHNAK |
| RUNX1 | 1.34E-60 | 0.282112912 | 0.685 | 0.579 | 3.23E-56 | lobular | RUNX1 |
| DNAJC8 | 2.44E-60 | -0.337943968 | 0.186 | 0.28 | 5.89E-56 | lobular | DNAJC8 |
| SRPK1 | 2.94E-60 | -0.407612754 | 0.455 | 0.542 | 7.09E-56 | lobular | SRPK1 |
| CD164 | 4.37E-60 | 0.340335703 | 0.322 | 0.221 | 1.05E-55 | lobular | CD164 |
| USP53 | 4.83E-60 | -0.61077 | 0.603 | 0.661 | 1.16E-55 | lobular | USP53 |
| LRRFIP1 | 6.86E-60 | 0.254577817 | 0.675 | 0.559 | 1.65E-55 | lobular | LRRFIP1 |
| CRY1 | 8.29E-60 | 0.384597211 | 0.428 | 0.319 | 2.00E-55 | lobular | CRY1 |
| RBBP6 | 1.51E-59 | 0.307506286 | 0.322 | 0.217 | 3.63E-55 | lobular | RBBP6 |
| UBE2K | 1.55E-59 | 0.315285432 | 0.424 | 0.312 | 3.73E-55 | lobular | UBE2K |
| FBXO32 | 2.09E-59 | -0.57727673 | 0.336 | 0.428 | 5.04E-55 | lobular | FBXO32 |
| ZFAND5 | 2.28E-59 | 0.318694219 | 0.477 | 0.367 | 5.50E-55 | lobular | ZFAND5 |
| PERP | 2.57E-59 | 0.288542672 | 0.498 | 0.385 | 6.19E-55 | lobular | PERP |
| RARS | 2.58E-59 | -0.339006279 | 0.189 | 0.28 | 6.23E-55 | lobular | RARS |
| C2orf88 | 3.29E-59 | -0.396925484 | 0.315 | 0.41 | 7.93E-55 | lobular | C2orf88 |
| BCAS3 | 3.95E-59 | -0.264959421 | 0.716 | 0.777 | 9.52E-55 | lobular | BCAS3 |
| SLTM | 5.57E-59 | 0.303155991 | 0.335 | 0.231 | 1.34E-54 | lobular | SLTM |
| HSPH1 | 7.38E-59 | 0.426455969 | 0.324 | 0.223 | 1.78E-54 | lobular | HSPH1 |
| SREBF2 | 7.91E-59 | 0.31370641 | 0.421 | 0.309 | 1.91E-54 | lobular | SREBF2 |

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| SNRPG | 9.45E-59 | -0.358911885 | 0.49 | 0.568 | 2.28E-54 lobular | SNRPG |
| TGIF1 | 1.03E-58 | 0.342257951 | 0.256 | 0.163 | 2.48E-54 lobular | TGIF1 |
| ATP5E | 1.49E-58 | 0.457504292 | 0.59 | 0.502 | 3.59E-54 lobular | ATP5E |
| RNMT | 1.84E-58 | -0.359417608 | 0.293 | 0.393 | 4.43E-54 lobular | RNMT |
| PTPRE | 3.71E-58 | 0.464966454 | 0.302 | 0.208 | 8.95E-54 lobular | PTPRE |
| PPP2CB | 3.77E-58 | 0.294101567 | 0.381 | 0.272 | 9.08E-54 lobular | PPP2CB |
| LIMCH1 | 3.87E-58 | 0.415757283 | 0.525 | 0.428 | 9.33E-54 lobular | LIMCH1 |
| MYO1B | 9.41E-58 | 0.405637755 | 0.488 | 0.383 | 2.27E-53 lobular | MYO1B |
| ATXN2 | 1.15E-57 | 0.302182501 | 0.376 | 0.269 | 2.77E-53 lobular | ATXN2 |
| CD46 | 1.21E-57 | 0.299237454 | 0.446 | 0.333 | 2.92E-53 lobular | CD46 |
| SMCHD1 | 1.67E-57 | 0.375203505 | 0.447 | 0.346 | 4.02E-53 lobular | SMCHD1 |
| MAN1A1 | 2.60E-57 | 0.316360125 | 0.265 | 0.17 | 6.28E-53 lobular | MAN1A1 |
| AC018890. | 2.69E-57 | 0.319757162 | 0.277 | 0.18 | 6.49E-53 lobular | AC018890.6 |
| GRAMD3 | 2.71E-57 | 0.351329783 | 0.389 | 0.282 | 6.54E-53 lobular | GRAMD3 |
| DMD | 3.97E-57 | -0.4739159 | 0.228 | 0.318 | 9.56E-53 lobular | DMD |
| CD9 | 4.09E-57 | 0.371834893 | 0.427 | 0.324 | 9.85E-53 lobular | CD9 |
| TMEM87A | 4.71E-57 | 0.274517159 | 0.428 | 0.317 | 1.14E-52 lobular | TMEM87A |
| ATP6V1E1 | 7.23E-57 | -0.340171141 | 0.26 | 0.353 | 1.74E-52 lobular | ATP6V1E1 |
| ATF3 | 1.50E-56 | 0.339961322 | 0.449 | 0.34 | 3.62E-52 lobular | ATF3 |
| CTNNA1 | 1.91E-56 | 0.28831696 | 0.578 | 0.475 | 4.59E-52 lobular | CTNNA1 |
| PLCB1 | 2.89E-56 | -0.489759923 | 0.192 | 0.28 | 6.98E-52 lobular | PLCB1 |
| DTNB | 3.14E-56 | -0.378518831 | 0.392 | 0.489 | 7.58E-52 lobular | DTNB |
| KLF6 | 3.90E-56 | 0.314009513 | 0.611 | 0.507 | 9.41E-52 lobular | KLF6 |
| SRSF4 | 4.20E-56 | 0.277307052 | 0.334 | 0.232 | 1.01E-51 lobular | SRSF4 |
| RB1CC1 | 6.14E-56 | 0.305585423 | 0.524 | 0.416 | 1.48E-51 lobular | RB1CC1 |
| CSNK1A1 | 7.96E-56 | 0.288447235 | 0.693 | 0.595 | 1.92E-51 lobular | CSNK1A1 |
| RNF11 | 9.05E-56 | 0.290266083 | 0.284 | 0.188 | 2.18E-51 lobular | RNF11 |
| GABARAP | 1.11E-55 | -0.359018421 | 0.327 | 0.424 | 2.68E-51 lobular | GABARAP |
| ARHGEF28 | 1.34E-55 | -0.492235725 | 0.241 | 0.332 | 3.24E-51 lobular | ARHGEF28 |
| CCT3 | 1.75E-55 | 0.298709587 | 0.4 | 0.298 | 4.23E-51 lobular | CCT3 |
| SLC22A23 | 1.79E-55 | 0.308593537 | 0.286 | 0.189 | 4.31E-51 lobular | SLC22A23 |
| BAZ1A | 2.97E-55 | 0.372713575 | 0.424 | 0.322 | 7.17E-51 lobular | BAZ1A |
| UBE2R2 | 3.19E-55 | 0.285745494 | 0.411 | 0.305 | 7.69E-51 lobular | UBE2R2 |
| EIF3I | 3.54E-55 | -0.303688986 | 0.567 | 0.643 | 8.53E-51 lobular | EIF3I |
| PTPRK | 8.31E-55 | 0.293830099 | 0.794 | 0.735 | 2.00E-50 lobular | PTPRK |
| CAB39 | 9.01E-55 | 0.343557757 | 0.4 | 0.301 | 2.17E-50 lobular | CAB39 |
| LAMC2 | 1.18E-54 | -0.369437658 | 0.23 | 0.324 | 2.84E-50 lobular | LAMC2 |
| TMBIM6 | 1.23E-54 | -0.328525313 | 0.854 | 0.873 | 2.96E-50 lobular | TMBIM6 |
| RNF144B | 1.72E-54 | -0.489476468 | 0.256 | 0.343 | 4.14E-50 lobular | RNF144B |
| RAB21 | 1.92E-54 | 0.31337929 | 0.301 | 0.203 | 4.62E-50 lobular | RAB21 |
| YY1 | 2.15E-54 | 0.274179961 | 0.257 | 0.165 | 5.17E-50 lobular | YY1 |
| POLE2 | 2.50E-54 | -0.314658256 | 0.205 | 0.297 | 6.02E-50 lobular | POLE2 |
| MAP2K4 | 2.60E-54 | -0.363322234 | 0.412 | 0.498 | 6.27E-50 lobular | MAP2K4 |
| GPBP1L1 | 2.72E-54 | 0.292503517 | 0.384 | 0.281 | 6.56E-50 lobular | GPBP1L1 |
| CTTNBP2N1 | 3.27E-54 | -0.346776759 | 0.18 | 0.265 | 7.87E-50 lobular | CTTNBP2NL |
| SCGB2A2 | 3.32E-54 | 0.506063487 | 0.314 | 0.21 | 8.02E-50 lobular | SCGB2A2 |
| CLIC6 | 4.39E-54 | 0.374053549 | 0.252 | 0.164 | 1.06E-49 lobular | CLIC6 |

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|-----------|----------|--------------|-------|-------|----------|---------|------------------|
| SEMA4B | 5.32E-54 | 0.272551279 | 0.26 | 0.167 | 1.28E-49 | lobular | SEMA4B |
| ITPR2 | 6.63E-54 | 0.3540992 | 0.513 | 0.412 | 1.60E-49 | lobular | ITPR2 |
| ANO6 | 9.35E-54 | 0.342447654 | 0.556 | 0.463 | 2.25E-49 | lobular | ANO6 |
| CIR1 | 1.33E-53 | -0.327803467 | 0.224 | 0.314 | 3.20E-49 | lobular | CIR1 |
| NAV2 | 1.74E-53 | -0.44988989 | 0.383 | 0.473 | 4.20E-49 | lobular | NAV2 |
| MAN2A1 | 5.95E-53 | 0.291929364 | 0.359 | 0.258 | 1.44E-48 | lobular | MAN2A1 |
| PDK3 | 7.56E-53 | -0.454648192 | 0.198 | 0.282 | 1.82E-48 | lobular | PDK3 |
| MAP4K4 | 1.02E-52 | -0.429673366 | 0.205 | 0.289 | 2.47E-48 | lobular | MAP4K4 |
| TBC1D3P1- | 1.18E-52 | -0.436448065 | 0.56 | 0.638 | 2.85E-48 | lobular | TBC1D3P1-DHX40P1 |
| PIP5K1A | 1.31E-52 | 0.294625731 | 0.341 | 0.242 | 3.15E-48 | lobular | PIP5K1A |
| RALGAPA1 | 1.41E-52 | 0.334701928 | 0.342 | 0.247 | 3.39E-48 | lobular | RALGAPA1 |
| CXCR4 | 2.07E-52 | -0.399549607 | 0.187 | 0.272 | 5.00E-48 | lobular | CXCR4 |
| CTBP2 | 2.76E-52 | 0.264724044 | 0.386 | 0.28 | 6.65E-48 | lobular | CTBP2 |
| RNF10 | 3.35E-52 | 0.283929868 | 0.26 | 0.171 | 8.07E-48 | lobular | RNF10 |
| ZBTB16 | 4.34E-52 | 0.318670367 | 0.314 | 0.216 | 1.05E-47 | lobular | ZBTB16 |
| PTPN14 | 4.44E-52 | -0.462102745 | 0.271 | 0.356 | 1.07E-47 | lobular | PTPN14 |
| YBX3 | 5.27E-52 | 0.281849781 | 0.324 | 0.227 | 1.27E-47 | lobular | YBX3 |
| CREBRF | 6.71E-52 | 0.272659336 | 0.302 | 0.207 | 1.62E-47 | lobular | CREBRF |
| AC090498. | 1.29E-51 | -0.33552784 | 0.275 | 0.363 | 3.11E-47 | lobular | AC090498.1 |
| CYCS | 1.34E-51 | -0.332060535 | 0.493 | 0.569 | 3.23E-47 | lobular | CYCS |
| ATP5J | 2.98E-51 | -0.298744467 | 0.47 | 0.551 | 7.19E-47 | lobular | ATP5J |
| RAB7A | 3.49E-51 | 0.277165542 | 0.491 | 0.39 | 8.41E-47 | lobular | RAB7A |
| CHCHD2 | 4.14E-51 | 0.346104827 | 0.291 | 0.201 | 9.97E-47 | lobular | CHCHD2 |
| LAMB3 | 5.67E-51 | -0.4646258 | 0.209 | 0.294 | 1.37E-46 | lobular | LAMB3 |
| SRRM2 | 7.84E-51 | 0.266948921 | 0.251 | 0.163 | 1.89E-46 | lobular | SRRM2 |
| EEF1B2 | 1.92E-50 | 0.641554188 | 0.726 | 0.736 | 4.64E-46 | lobular | EEF1B2 |
| CBLB | 2.98E-50 | 0.312418465 | 0.359 | 0.262 | 7.19E-46 | lobular | CBLB |
| RARRES1 | 3.20E-50 | -0.453293524 | 0.181 | 0.266 | 7.72E-46 | lobular | RARRES1 |
| AKAP13 | 4.75E-50 | 0.329719185 | 0.646 | 0.557 | 1.14E-45 | lobular | AKAP13 |
| GNG12 | 5.68E-50 | 0.30933461 | 0.366 | 0.269 | 1.37E-45 | lobular | GNG12 |
| MYO10 | 1.25E-49 | 0.329137703 | 0.289 | 0.199 | 3.01E-45 | lobular | MYO10 |
| UBE2L3 | 2.04E-49 | -0.329044089 | 0.41 | 0.49 | 4.92E-45 | lobular | UBE2L3 |
| ARID1B | 2.22E-49 | 0.296933387 | 0.535 | 0.432 | 5.35E-45 | lobular | ARID1B |
| GHITM | 3.52E-49 | -0.334659664 | 0.416 | 0.494 | 8.49E-45 | lobular | GHITM |
| MAST2 | 4.59E-49 | 0.324746735 | 0.258 | 0.171 | 1.11E-44 | lobular | MAST2 |
| ASPH | 6.09E-49 | 0.299175248 | 0.321 | 0.228 | 1.47E-44 | lobular | ASPH |
| EIF4G3 | 7.88E-49 | 0.314135699 | 0.55 | 0.452 | 1.90E-44 | lobular | EIF4G3 |
| DIAPH1 | 8.09E-49 | 0.276265823 | 0.335 | 0.239 | 1.95E-44 | lobular | DIAPH1 |
| CALR | 8.48E-49 | 0.304341632 | 0.261 | 0.173 | 2.05E-44 | lobular | CALR |
| ARID1A | 9.10E-49 | 0.269520475 | 0.275 | 0.186 | 2.20E-44 | lobular | ARID1A |
| LCOR | 1.21E-48 | 0.330287554 | 0.3 | 0.213 | 2.93E-44 | lobular | LCOR |
| EMP1 | 1.76E-48 | -0.613970935 | 0.675 | 0.709 | 4.25E-44 | lobular | EMP1 |
| ARL1 | 6.13E-48 | -0.303928599 | 0.219 | 0.304 | 1.48E-43 | lobular | ARL1 |
| ATP5H | 6.19E-48 | -0.278771447 | 0.318 | 0.407 | 1.49E-43 | lobular | ATP5H |
| HNRNPC | 6.22E-48 | -0.287189649 | 0.773 | 0.803 | 1.50E-43 | lobular | HNRNPC |
| CCT8 | 1.57E-47 | -0.343966016 | 0.253 | 0.333 | 3.78E-43 | lobular | CCT8 |
| CLIP1 | 1.69E-47 | 0.307567124 | 0.438 | 0.34 | 4.07E-43 | lobular | CLIP1 |

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|-----------|----------|--------------|-------|-------|----------|---------|---------------|
| BCOR | 1.99E-47 | -0.252453411 | 0.474 | 0.581 | 4.80E-43 | lobular | BCOR |
| CLINT1 | 2.15E-47 | -0.347825223 | 0.218 | 0.301 | 5.17E-43 | lobular | CLINT1 |
| NFAT5 | 2.28E-47 | 0.301446279 | 0.664 | 0.572 | 5.51E-43 | lobular | NFAT5 |
| OLA1 | 3.77E-47 | 0.312406198 | 0.36 | 0.268 | 9.09E-43 | lobular | OLA1 |
| SIK3 | 4.21E-47 | -0.511055578 | 0.97 | 0.977 | 1.01E-42 | lobular | SIK3 |
| CALCOCO2 | 4.46E-47 | -0.328517216 | 0.222 | 0.304 | 1.07E-42 | lobular | CALCOCO2 |
| TMEM41B | 6.37E-47 | 0.269266122 | 0.284 | 0.195 | 1.54E-42 | lobular | TMEM41B |
| CHD2 | 7.47E-47 | 0.262455812 | 0.589 | 0.483 | 1.80E-42 | lobular | CHD2 |
| CYB5A | 2.13E-46 | 0.356672836 | 0.292 | 0.207 | 5.14E-42 | lobular | CYB5A |
| ATXN1 | 2.39E-46 | 0.297095111 | 0.554 | 0.455 | 5.76E-42 | lobular | ATXN1 |
| CYR61 | 2.83E-46 | 0.328001609 | 0.308 | 0.211 | 6.82E-42 | lobular | CYR61 |
| CAPN8 | 3.98E-46 | 0.265820394 | 0.253 | 0.166 | 9.60E-42 | lobular | CAPN8 |
| HIST1H2BD | 4.00E-46 | 0.286588045 | 0.337 | 0.243 | 9.64E-42 | lobular | HIST1H2BD |
| KMT2E | 4.46E-46 | 0.315545915 | 0.503 | 0.408 | 1.08E-41 | lobular | KMT2E |
| PFDN4 | 4.87E-46 | -0.294232307 | 0.304 | 0.392 | 1.17E-41 | lobular | PFDN4 |
| NDUFV2 | 8.60E-46 | 0.28590179 | 0.306 | 0.217 | 2.07E-41 | lobular | NDUFV2 |
| THSD4-AS1 | 1.31E-45 | -0.30611415 | 0.43 | 0.508 | 3.15E-41 | lobular | THSD4-AS1 |
| PNPLA8 | 1.40E-45 | -0.362287384 | 0.249 | 0.332 | 3.38E-41 | lobular | PNPLA8 |
| PPM1H | 3.34E-45 | -0.451313773 | 0.286 | 0.363 | 8.06E-41 | lobular | PPM1H |
| CWC15 | 3.52E-45 | -0.289046914 | 0.254 | 0.339 | 8.48E-41 | lobular | CWC15 |
| SF3B6 | 4.47E-45 | -0.278539803 | 0.584 | 0.65 | 1.08E-40 | lobular | SF3B6 |
| RP11-511B | 5.62E-45 | -0.287720169 | 0.48 | 0.555 | 1.35E-40 | lobular | RP11-511B23.2 |
| PAPSS1 | 5.65E-45 | -0.385441547 | 0.201 | 0.277 | 1.36E-40 | lobular | PAPSS1 |
| FAM185A | 1.22E-44 | -0.315805045 | 0.183 | 0.259 | 2.93E-40 | lobular | FAM185A |
| SMC5 | 1.77E-44 | -0.384267412 | 0.277 | 0.355 | 4.27E-40 | lobular | SMC5 |
| OCLN | 1.92E-44 | 0.2770575 | 0.374 | 0.28 | 4.63E-40 | lobular | OCLN |
| OSMR | 2.18E-44 | -0.336069944 | 0.277 | 0.359 | 5.26E-40 | lobular | OSMR |
| NCOR1 | 3.80E-44 | 0.2618251 | 0.459 | 0.366 | 9.17E-40 | lobular | NCOR1 |
| LAMTOR5 | 4.05E-44 | -0.270361724 | 0.563 | 0.63 | 9.78E-40 | lobular | LAMTOR5 |
| TTC1 | 1.73E-43 | -0.315139147 | 0.244 | 0.323 | 4.17E-39 | lobular | TTC1 |
| HLA-C | 2.23E-43 | 0.337330652 | 0.346 | 0.262 | 5.37E-39 | lobular | HLA-C |
| NUP153 | 2.23E-43 | 0.265996505 | 0.318 | 0.228 | 5.37E-39 | lobular | NUP153 |
| TEAD1 | 2.45E-43 | 0.278661253 | 0.491 | 0.394 | 5.91E-39 | lobular | TEAD1 |
| RBPMS | 3.21E-43 | -0.357114316 | 0.639 | 0.697 | 7.74E-39 | lobular | RBPMS |
| ARID4B | 3.32E-43 | 0.283983033 | 0.593 | 0.498 | 7.99E-39 | lobular | ARID4B |
| CASC15 | 6.54E-43 | 0.580943484 | 0.547 | 0.485 | 1.58E-38 | lobular | CASC15 |
| USP25 | 1.59E-42 | 0.296751993 | 0.292 | 0.209 | 3.83E-38 | lobular | USP25 |
| TNRC6B | 1.78E-42 | 0.266207546 | 0.524 | 0.43 | 4.28E-38 | lobular | TNRC6B |
| B4GALT1 | 1.80E-42 | 0.252210358 | 0.477 | 0.381 | 4.34E-38 | lobular | B4GALT1 |
| ASTN2 | 3.64E-42 | 0.302774418 | 0.307 | 0.222 | 8.79E-38 | lobular | ASTN2 |
| NEAT1 | 4.87E-42 | -0.27713743 | 0.938 | 0.964 | 1.18E-37 | lobular | NEAT1 |
| PPP3CA | 5.09E-42 | 0.312091652 | 0.596 | 0.514 | 1.23E-37 | lobular | PPP3CA |
| SOS1 | 1.56E-41 | 0.2746161 | 0.405 | 0.315 | 3.76E-37 | lobular | SOS1 |
| MARCKS | 1.65E-41 | -0.365769703 | 0.322 | 0.4 | 3.99E-37 | lobular | MARCKS |
| CCDC6 | 2.26E-41 | 0.30086367 | 0.351 | 0.266 | 5.46E-37 | lobular | CCDC6 |
| SMAD2 | 1.04E-40 | 0.274099557 | 0.337 | 0.253 | 2.50E-36 | lobular | SMAD2 |
| CXCL1 | 1.60E-40 | 0.826750129 | 0.3 | 0.224 | 3.86E-36 | lobular | CXCL1 |

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| ANKRD12 | 1.68E-40 | 0.254682037 | 0.702 | 0.629 | 4.06E-36 | lobular | ANKRD12 |
| OVOS2 | 2.06E-40 | -0.432405593 | 0.238 | 0.324 | 4.97E-36 | lobular | OVOS2 |
| WWP1 | 2.25E-40 | 0.284636007 | 0.344 | 0.262 | 5.42E-36 | lobular | WWP1 |
| SCOC | 2.86E-40 | -0.258124411 | 0.213 | 0.291 | 6.89E-36 | lobular | SCOC |
| NSRP1 | 3.20E-40 | -0.279907825 | 0.184 | 0.257 | 7.73E-36 | lobular | NSRP1 |
| CXCL8 | 3.86E-40 | -0.868712617 | 0.416 | 0.499 | 9.31E-36 | lobular | CXCL8 |
| CLASP2 | 4.88E-40 | 0.273200685 | 0.306 | 0.223 | 1.18E-35 | lobular | CLASP2 |
| IER3 | 1.17E-39 | 0.283325216 | 0.353 | 0.267 | 2.83E-35 | lobular | IER3 |
| CAPZA2 | 1.39E-39 | -0.292726264 | 0.28 | 0.357 | 3.36E-35 | lobular | CAPZA2 |
| GNL3 | 1.78E-39 | -0.297840904 | 0.219 | 0.295 | 4.30E-35 | lobular | GNL3 |
| COPZ1 | 1.88E-39 | -0.259683395 | 0.292 | 0.375 | 4.53E-35 | lobular | COPZ1 |
| JUN | 2.73E-39 | 0.301053023 | 0.266 | 0.189 | 6.57E-35 | lobular | JUN |
| PCM1 | 3.13E-39 | 0.258072852 | 0.29 | 0.209 | 7.56E-35 | lobular | PCM1 |
| DPYD | 5.21E-39 | -0.297142955 | 0.492 | 0.569 | 1.26E-34 | lobular | DPYD |
| WDFY2 | 8.76E-39 | 0.261963912 | 0.298 | 0.216 | 2.11E-34 | lobular | WDFY2 |
| MRPL22 | 9.39E-39 | -0.279325672 | 0.19 | 0.263 | 2.26E-34 | lobular | MRPL22 |
| CDK8 | 1.70E-38 | 0.319654541 | 0.271 | 0.195 | 4.10E-34 | lobular | CDK8 |
| PELI1 | 1.93E-38 | -0.365238139 | 0.302 | 0.377 | 4.65E-34 | lobular | PELI1 |
| KDM6A | 2.04E-38 | 0.250534289 | 0.402 | 0.312 | 4.93E-34 | lobular | KDM6A |
| LRRFIP2 | 2.73E-38 | -0.563876559 | 0.756 | 0.775 | 6.59E-34 | lobular | LRRFIP2 |
| MACF1 | 4.72E-38 | 0.280333596 | 0.748 | 0.678 | 1.14E-33 | lobular | MACF1 |
| TXN | 6.51E-38 | -0.326192722 | 0.664 | 0.697 | 1.57E-33 | lobular | TXN |
| EPB41L5 | 1.31E-37 | 0.263229608 | 0.329 | 0.246 | 3.16E-33 | lobular | EPB41L5 |
| LMNA | 1.86E-37 | 0.264249999 | 0.263 | 0.184 | 4.48E-33 | lobular | LMNA |
| TMA7 | 2.23E-37 | 0.308481366 | 0.631 | 0.557 | 5.37E-33 | lobular | TMA7 |
| STAT3 | 2.57E-37 | 0.273013662 | 0.568 | 0.492 | 6.19E-33 | lobular | STAT3 |
| SFRP1 | 3.33E-37 | -0.271330429 | 0.199 | 0.272 | 8.03E-33 | lobular | SFRP1 |
| ANKRD17 | 5.43E-37 | 0.253500126 | 0.542 | 0.456 | 1.31E-32 | lobular | ANKRD17 |
| GAREM1 | 6.56E-37 | 0.278391206 | 0.352 | 0.271 | 1.58E-32 | lobular | GAREM1 |
| TBC1D8 | 9.73E-37 | 0.257102421 | 0.464 | 0.376 | 2.35E-32 | lobular | TBC1D8 |
| DHRX | 1.27E-36 | 0.27633184 | 0.309 | 0.228 | 3.05E-32 | lobular | DHRX |
| CLMN | 1.30E-36 | -0.384779269 | 0.512 | 0.571 | 3.13E-32 | lobular | CLMN |
| RBMS1 | 1.83E-36 | 0.307301629 | 0.376 | 0.296 | 4.41E-32 | lobular | RBMS1 |
| NTN4 | 9.01E-36 | 0.272032556 | 0.332 | 0.252 | 2.17E-31 | lobular | NTN4 |
| ATP5F1 | 9.32E-36 | -0.260841886 | 0.346 | 0.422 | 2.25E-31 | lobular | ATP5F1 |
| FAM19A2 | 1.05E-35 | 0.413235572 | 0.626 | 0.545 | 2.54E-31 | lobular | FAM19A2 |
| PBX1 | 1.13E-35 | 0.253940805 | 0.294 | 0.215 | 2.72E-31 | lobular | PBX1 |
| TMOD3 | 1.52E-35 | 0.279685197 | 0.434 | 0.356 | 3.68E-31 | lobular | TMOD3 |
| S100A11 | 1.83E-35 | -0.330233016 | 0.709 | 0.751 | 4.42E-31 | lobular | S100A11 |
| DENND4A | 2.75E-35 | 0.388182565 | 0.619 | 0.556 | 6.62E-31 | lobular | DENND4A |
| BTF3 | 4.10E-35 | 0.450977285 | 0.878 | 0.907 | 9.89E-31 | lobular | BTF3 |
| FMNL2 | 6.46E-35 | -0.426506093 | 0.329 | 0.395 | 1.56E-30 | lobular | FMNL2 |
| PTGES3 | 1.15E-34 | 0.26034502 | 0.272 | 0.199 | 2.76E-30 | lobular | PTGES3 |
| TCEAL8 | 2.77E-34 | -0.265647044 | 0.209 | 0.278 | 6.68E-30 | lobular | TCEAL8 |
| SESTD1 | 2.95E-34 | -0.304518118 | 0.465 | 0.53 | 7.12E-30 | lobular | SESTD1 |
| NRIP1 | 3.07E-34 | 0.273717191 | 0.299 | 0.223 | 7.41E-30 | lobular | NRIP1 |
| RNF24 | 1.35E-33 | -0.306152292 | 0.307 | 0.377 | 3.26E-29 | lobular | RNF24 |

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| CHD9 | 1.69E-33 | -0.2984741 | 0.378 | 0.445 | 4.06E-29 | lobular | CHD9 |
| TMTC2 | 1.75E-33 | 0.255035282 | 0.411 | 0.327 | 4.23E-29 | lobular | TMTC2 |
| FDFT1 | 2.36E-33 | 0.262290527 | 0.344 | 0.268 | 5.69E-29 | lobular | FDFT1 |
| SMAD3 | 4.17E-33 | 0.314881433 | 0.298 | 0.23 | 1.01E-28 | lobular | SMAD3 |
| GPD2 | 9.53E-33 | 0.311547071 | 0.36 | 0.287 | 2.30E-28 | lobular | GPD2 |
| STK39 | 9.67E-33 | 0.388839003 | 0.267 | 0.196 | 2.33E-28 | lobular | STK39 |
| MAML3 | 1.21E-32 | 0.313901227 | 0.381 | 0.305 | 2.92E-28 | lobular | MAML3 |
| FRYL | 1.69E-32 | 0.261671492 | 0.428 | 0.351 | 4.07E-28 | lobular | FRYL |
| RAPGEF5 | 2.20E-32 | -0.31105566 | 0.312 | 0.385 | 5.30E-28 | lobular | RAPGEF5 |
| PSMC6 | 2.34E-32 | -0.275365565 | 0.291 | 0.359 | 5.64E-28 | lobular | PSMC6 |
| MMADHC | 5.74E-32 | -0.265487469 | 0.284 | 0.351 | 1.38E-27 | lobular | MMADHC |
| PIN4 | 7.61E-32 | -0.257863758 | 0.243 | 0.311 | 1.84E-27 | lobular | PIN4 |
| REL | 1.38E-31 | 0.255724162 | 0.33 | 0.255 | 3.33E-27 | lobular | REL |
| SEC11A | 2.34E-31 | -0.250782165 | 0.461 | 0.524 | 5.63E-27 | lobular | SEC11A |
| EIF4E2 | 4.14E-31 | -0.25400183 | 0.3 | 0.365 | 9.98E-27 | lobular | EIF4E2 |
| IRF2 | 6.59E-31 | -0.258086817 | 0.209 | 0.274 | 1.59E-26 | lobular | IRF2 |
| CX3CL1 | 9.76E-31 | 0.262721801 | 0.259 | 0.189 | 2.35E-26 | lobular | CX3CL1 |
| SPATS2L | 1.32E-30 | -0.322681896 | 0.216 | 0.279 | 3.19E-26 | lobular | SPATS2L |
| NDUFB4 | 1.43E-30 | 0.262547702 | 0.467 | 0.386 | 3.44E-26 | lobular | NDUFB4 |
| PSTPIP2 | 1.59E-30 | -0.362478257 | 0.203 | 0.265 | 3.83E-26 | lobular | PSTPIP2 |
| ARHGEF38 | 5.28E-30 | 0.288343551 | 0.513 | 0.44 | 1.27E-25 | lobular | ARHGEF38 |
| SORBS2 | 6.82E-30 | -0.44267285 | 0.356 | 0.423 | 1.64E-25 | lobular | SORBS2 |
| DAPK2 | 7.57E-30 | -0.281008812 | 0.21 | 0.275 | 1.82E-25 | lobular | DAPK2 |
| PRDM2 | 1.96E-29 | 0.318579717 | 0.325 | 0.252 | 4.73E-25 | lobular | PRDM2 |
| GPRC5A | 2.12E-29 | 0.27820975 | 0.42 | 0.346 | 5.11E-25 | lobular | GPRC5A |
| HES1 | 2.24E-29 | 0.409825389 | 0.371 | 0.3 | 5.40E-25 | lobular | HES1 |
| PALLD | 3.53E-29 | -0.349049516 | 0.381 | 0.439 | 8.51E-25 | lobular | PALLD |
| PSMD11 | 8.70E-29 | -0.267004151 | 0.235 | 0.297 | 2.10E-24 | lobular | PSMD11 |
| CAPN2 | 1.24E-28 | -0.259521803 | 0.27 | 0.335 | 2.98E-24 | lobular | CAPN2 |
| PNRC1 | 3.44E-28 | -0.279586325 | 0.397 | 0.454 | 8.29E-24 | lobular | PNRC1 |
| TJP2 | 3.65E-28 | -0.329644375 | 0.301 | 0.358 | 8.79E-24 | lobular | TJP2 |
| RPS2 | 5.54E-28 | 0.278728476 | 0.303 | 0.231 | 1.34E-23 | lobular | RPS2 |
| ABHD18 | 9.51E-28 | 0.271354829 | 0.372 | 0.303 | 2.29E-23 | lobular | ABHD18 |
| RASA2 | 2.73E-27 | -0.336641372 | 0.521 | 0.573 | 6.58E-23 | lobular | RASA2 |
| YPEL5 | 2.81E-27 | -0.288254474 | 0.38 | 0.436 | 6.76E-23 | lobular | YPEL5 |
| RIPK2 | 3.78E-27 | -0.362925506 | 0.258 | 0.318 | 9.12E-23 | lobular | RIPK2 |
| HNRNPA3 | 3.99E-27 | -0.257383514 | 0.242 | 0.302 | 9.63E-23 | lobular | HNRNPA3 |
| CAST | 1.21E-26 | -0.254268522 | 0.494 | 0.546 | 2.93E-22 | lobular | CAST |
| TPT1-AS1 | 1.83E-26 | -0.27866689 | 0.214 | 0.272 | 4.42E-22 | lobular | TPT1-AS1 |
| GLUL | 2.01E-26 | 0.250815655 | 0.407 | 0.331 | 4.84E-22 | lobular | GLUL |
| AC016831.1 | 3.90E-26 | -0.306951453 | 0.236 | 0.296 | 9.40E-22 | lobular | AC016831.7 |
| MAP4K5 | 4.73E-26 | -0.302383327 | 0.265 | 0.325 | 1.14E-21 | lobular | MAP4K5 |
| ARHGEF10 | 1.51E-25 | -0.338956013 | 0.2 | 0.254 | 3.65E-21 | lobular | ARHGEF10 |
| SEPP1 | 1.53E-25 | 0.262267563 | 0.339 | 0.272 | 3.69E-21 | lobular | SEPP1 |
| S100A14 | 4.09E-25 | -0.267454518 | 0.724 | 0.754 | 9.86E-21 | lobular | S100A14 |
| CD55 | 4.50E-25 | -0.281018936 | 0.269 | 0.326 | 1.08E-20 | lobular | CD55 |
| PTBP2 | 9.05E-25 | -0.265052147 | 0.324 | 0.381 | 2.18E-20 | lobular | PTBP2 |

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|-----------|----------|--------------|-------|-------|----------|---------|-------------|
| CMIP | 1.24E-24 | -0.268505439 | 0.246 | 0.303 | 2.99E-20 | lobular | CMIP |
| JARID2 | 3.11E-24 | 0.378592599 | 0.277 | 0.215 | 7.49E-20 | lobular | JARID2 |
| MPZL1 | 3.51E-24 | -0.267344084 | 0.355 | 0.41 | 8.46E-20 | lobular | MPZL1 |
| RPSA | 5.14E-24 | 0.431356109 | 0.798 | 0.831 | 1.24E-19 | lobular | RPSA |
| EXT1 | 9.46E-24 | -0.303487422 | 0.478 | 0.531 | 2.28E-19 | lobular | EXT1 |
| CRIM1 | 1.25E-23 | -0.372928769 | 0.424 | 0.469 | 3.02E-19 | lobular | CRIM1 |
| LSAMP | 2.35E-23 | 0.44204311 | 0.487 | 0.449 | 5.67E-19 | lobular | LSAMP |
| PDE8A | 6.30E-23 | -0.275173431 | 0.308 | 0.363 | 1.52E-18 | lobular | PDE8A |
| CLK1 | 4.02E-22 | -0.275417545 | 0.399 | 0.45 | 9.69E-18 | lobular | CLK1 |
| KDM7A | 4.64E-21 | -0.253560606 | 0.257 | 0.308 | 1.12E-16 | lobular | KDM7A |
| TACSTD2 | 7.05E-21 | 0.31891673 | 0.739 | 0.717 | 1.70E-16 | lobular | TACSTD2 |
| ATP13A3 | 3.57E-19 | -0.286541461 | 0.245 | 0.293 | 8.62E-15 | lobular | ATP13A3 |
| RPS27 | 4.59E-19 | -1.065799586 | 0.631 | 0.648 | 1.11E-14 | lobular | RPS27 |
| ERO1A | 3.66E-18 | -0.355366203 | 0.426 | 0.467 | 8.84E-14 | lobular | ERO1A |
| ADAM17 | 3.69E-18 | -0.267581125 | 0.368 | 0.41 | 8.90E-14 | lobular | ADAM17 |
| HIVEP2 | 1.18E-17 | 0.379451804 | 0.465 | 0.429 | 2.85E-13 | lobular | HIVEP2 |
| DHFR | 9.13E-15 | -0.262560868 | 0.794 | 0.786 | 2.20E-10 | lobular | DHFR |
| DAAM1 | 7.74E-13 | -0.299100891 | 0.501 | 0.524 | 1.87E-08 | lobular | DAAM1 |
| RP11-37B2 | 2.45E-12 | -0.259501697 | 0.214 | 0.25 | 5.90E-08 | lobular | RP11-37B2.1 |
| TNFSF10 | 9.84E-12 | -0.395674103 | 0.466 | 0.487 | 2.37E-07 | lobular | TNFSF10 |
| FOSB | 1.53E-11 | -0.262509169 | 0.386 | 0.413 | 3.68E-07 | lobular | FOSB |
| IFRD1 | 2.64E-11 | -0.253683866 | 0.342 | 0.37 | 6.38E-07 | lobular | IFRD1 |
| ATP5EP2 | 2.93E-11 | 0.265058578 | 0.317 | 0.287 | 7.06E-07 | lobular | ATP5EP2 |
| BAIAP2L1 | 2.14E-10 | 0.355432154 | 0.911 | 0.953 | 5.17E-06 | lobular | BAIAP2L1 |
| DAPK1 | 3.37E-10 | -0.364604726 | 0.577 | 0.462 | 8.13E-06 | lobular | DAPK1 |
| ADAM9 | 4.98E-10 | -0.266710572 | 0.563 | 0.579 | 1.20E-05 | lobular | ADAM9 |
| CCL2.1 | 0 | 2.725122155 | 0.447 | 0.148 | 0 | ductal | CCL2 |
| MGP.1 | 0 | 2.262830937 | 0.952 | 0.74 | 0 | ductal | MGP |
| TNFAIP6.1 | 0 | 2.151492186 | 0.357 | 0.114 | 0 | ductal | TNFAIP6 |
| PTN.1 | 0 | 2.024538586 | 0.275 | 0.018 | 0 | ductal | PTN |
| ANXA1.1 | 0 | 1.812768301 | 0.771 | 0.514 | 0 | ductal | ANXA1 |
| SLPI.1 | 0 | 1.787375225 | 0.781 | 0.414 | 0 | ductal | SLPI |
| FAM177B.1 | 0 | 1.657631728 | 0.693 | 0.375 | 0 | ductal | FAM177B |
| PDE4B.1 | 0 | 1.521512584 | 0.698 | 0.411 | 0 | ductal | PDE4B |
| B2M.1 | 0 | 1.35009724 | 0.986 | 0.963 | 0 | ductal | B2M |
| AKT3.1 | 0 | 1.347825087 | 0.543 | 0.231 | 0 | ductal | AKT3 |
| RCAN1.1 | 0 | 1.29291809 | 0.54 | 0.311 | 0 | ductal | RCAN1 |
| SDCBP.1 | 0 | 1.275730213 | 0.77 | 0.528 | 0 | ductal | SDCBP |
| STEAP1B.1 | 0 | 1.243422608 | 0.954 | 0.922 | 0 | ductal | STEAP1B |
| ANKRD36C | 0 | 1.213598799 | 0.633 | 0.356 | 0 | ductal | ANKRD36C |
| ALDH1A3.1 | 0 | 1.206707653 | 0.441 | 0.18 | 0 | ductal | ALDH1A3 |
| LTF.1 | 0 | 1.189813971 | 0.513 | 0.244 | 0 | ductal | LTF |
| PGK1.1 | 0 | 1.153963297 | 0.709 | 0.465 | 0 | ductal | PGK1 |
| FAM172A.1 | 0 | 1.129217956 | 0.749 | 0.541 | 0 | ductal | FAM172A |
| PCNXL2.1 | 0 | 1.117886167 | 0.864 | 0.705 | 0 | ductal | PCNXL2 |
| EPB42.1 | 0 | 1.099491879 | 0.94 | 0.869 | 0 | ductal | EPB42 |
| PSME2.1 | 0 | 1.089003029 | 0.456 | 0.198 | 0 | ductal | PSME2 |

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| TSHZ2.1 | 0 | 1.077660036 | 0.397 | 0.163 | 0 ductal | TSHZ2 |
| PTEN.1 | 0 | 1.072595202 | 0.89 | 0.759 | 0 ductal | PTEN |
| RPL21.1 | 0 | 1.069539434 | 0.951 | 0.822 | 0 ductal | RPL21 |
| GRB14.1 | 0 | 1.067678487 | 0.556 | 0.323 | 0 ductal | GRB14 |
| SOD2.1 | 0 | 1.030661906 | 0.885 | 0.714 | 0 ductal | SOD2 |
| UBC.1 | 0 | 1.014091205 | 0.963 | 0.861 | 0 ductal | UBC |
| RP11-795H | 0 | 1.002727826 | 0.512 | 0.273 | 0 ductal | RP11-795H16.3 |
| MET.1 | 0 | 0.917931571 | 0.365 | 0.146 | 0 ductal | MET |
| RP11-356C | 0 | 0.908074306 | 0.27 | 0.078 | 0 ductal | RP11-356C4.5 |
| RPS3A.1 | 0 | 0.890992547 | 0.95 | 0.869 | 0 ductal | RPS3A |
| SEC61G.1 | 0 | 0.862317764 | 0.727 | 0.524 | 0 ductal | SEC61G |
| SON.1 | 0 | 0.813488169 | 0.777 | 0.623 | 0 ductal | SON |
| ANXA2.1 | 0 | 0.774807154 | 0.943 | 0.917 | 0 ductal | ANXA2 |
| NPM1.1 | 0 | 0.749023387 | 0.836 | 0.642 | 0 ductal | NPM1 |
| RBFOX2.1 | 0 | 0.732646875 | 0.971 | 0.94 | 0 ductal | RBFOX2 |
| ADGRL3-AS | 0 | 0.729782258 | 0.729 | 0.521 | 0 ductal | ADGRL3-AS1 |
| SKP1.1 | 0 | 0.718890034 | 0.875 | 0.767 | 0 ductal | SKP1 |
| PLEKHA6.1 | 0 | 0.716527974 | 0.91 | 0.787 | 0 ductal | PLEKHA6 |
| RPL24.1 | 0 | 0.676667684 | 0.954 | 0.894 | 0 ductal | RPL24 |
| SLC47A1.1 | 0 | 0.641508596 | 0.952 | 0.863 | 0 ductal | SLC47A1 |
| LINC00486 | 0 | 0.61251405 | 0.993 | 0.984 | 0 ductal | LINC00486 |
| KIZ-AS1.1 | 0 | 0.596703007 | 0.914 | 0.802 | 0 ductal | KIZ-AS1 |
| RPL34.1 | 0 | 0.592745866 | 0.983 | 0.975 | 0 ductal | RPL34 |
| RPL39.1 | 0 | 0.509772286 | 0.944 | 0.871 | 0 ductal | RPL39 |
| EEF1A1.1 | 0 | 0.481011136 | 0.983 | 0.97 | 0 ductal | EEF1A1 |
| RPL37A.1 | 0 | 0.406225757 | 0.98 | 0.971 | 0 ductal | RPL37A |
| MT-ATP6.1 | 0 | -0.534050557 | 0.984 | 0.995 | 0 ductal | MT-ATP6 |
| TPT1.1 | 0 | -0.540946218 | 0.761 | 0.907 | 0 ductal | TPT1 |
| RPS14.1 | 0 | -0.558013124 | 0.234 | 0.519 | 0 ductal | RPS14 |
| MT-ND1.1 | 0 | -0.577968263 | 0.961 | 0.991 | 0 ductal | MT-ND1 |
| OST4.1 | 0 | -0.832455471 | 0.244 | 0.519 | 0 ductal | OST4 |
| RPS8.1 | 0 | -0.845433614 | 0.587 | 0.828 | 0 ductal | RPS8 |
| COX4I1.1 | 0 | -0.871950883 | 0.666 | 0.839 | 0 ductal | COX4I1 |
| GNB2L1.1 | 0 | -0.905572278 | 0.506 | 0.772 | 0 ductal | GNB2L1 |
| ACTG1.1 | 0 | -0.910288446 | 0.601 | 0.8 | 0 ductal | ACTG1 |
| RPL15.1 | 0 | -0.949047938 | 0.631 | 0.867 | 0 ductal | RPL15 |
| AMBRA1.1 | 0 | -0.955761452 | 0.494 | 0.787 | 0 ductal | AMBRA1 |
| SERF2.1 | 0 | -0.956735644 | 0.176 | 0.527 | 0 ductal | SERF2 |
| GNAS.1 | 0 | -0.977566622 | 0.61 | 0.839 | 0 ductal | GNAS |
| RPS18.1 | 0 | -0.988999102 | 0.436 | 0.756 | 0 ductal | RPS18 |
| AREG.1 | 0 | -1.04445651 | 0.272 | 0.561 | 0 ductal | AREG |
| NBEAL1.1 | 0 | -1.055255649 | 0.529 | 0.828 | 0 ductal | NBEAL1 |
| FTL.1 | 0 | -1.113596813 | 0.326 | 0.655 | 0 ductal | FTL |
| RPL10A.1 | 0 | -1.129483999 | 0.582 | 0.799 | 0 ductal | RPL10A |
| ERBB4.1 | 0 | -1.137604686 | 0.309 | 0.605 | 0 ductal | ERBB4 |
| EIF2B5.1 | 0 | -1.151714614 | 0.315 | 0.55 | 0 ductal | EIF2B5 |
| PTHLH.1 | 0 | -1.178957482 | 0.081 | 0.331 | 0 ductal | PTHLH |

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| ANKRD30A | 0 | -1.20772945 | 0.263 | 0.6 | 0 | ductal | ANKRD30A |
| HPX.1 | 0 | -1.22775497 | 0.07 | 0.304 | 0 | ductal | HPX |
| RPLP0.1 | 0 | -1.33754745 | 0.794 | 0.91 | 0 | ductal | RPLP0 |
| RPL19.1 | 0 | -1.369488293 | 0.855 | 0.93 | 0 | ductal | RPL19 |
| DIO2.1 | 0 | -1.371056782 | 0.083 | 0.31 | 0 | ductal | DIO2 |
| RPS12.1 | 0 | -1.41506119 | 0.503 | 0.737 | 0 | ductal | RPS12 |
| TMSB10.1 | 0 | -1.579126235 | 0.491 | 0.878 | 0 | ductal | TMSB10 |
| RPS11.1 | 0 | -1.653818756 | 0.564 | 0.894 | 0 | ductal | RPS11 |
| RPS3.1 | 0 | -1.81604144 | 0.843 | 0.884 | 0 | ductal | RPS3 |
| RPL10.1 | 0 | -1.819908231 | 0.912 | 0.949 | 0 | ductal | RPL10 |
| HINT1.1 | 7.47E-306 | -0.728819844 | 0.472 | 0.68 | 1.80E-301 | ductal | HINT1 |
| EIF4A2.1 | 5.87E-304 | 0.785508174 | 0.787 | 0.644 | 1.41E-299 | ductal | EIF4A2 |
| PI3.1 | 7.87E-300 | 1.72874024 | 0.264 | 0.078 | 1.90E-295 | ductal | PI3 |
| GCNT2.1 | 2.02E-296 | -1.073512747 | 0.294 | 0.537 | 4.87E-292 | ductal | GCNT2 |
| PSMA4.1 | 2.62E-296 | 0.906113528 | 0.571 | 0.363 | 6.33E-292 | ductal | PSMA4 |
| MT-ND2.1 | 3.00E-296 | -0.425266432 | 0.959 | 0.988 | 7.23E-292 | ductal | MT-ND2 |
| SLC25A37.1 | 7.42E-296 | 1.012555721 | 0.533 | 0.298 | 1.79E-291 | ductal | SLC25A37 |
| EREG.1 | 1.91E-295 | -1.129437377 | 0.119 | 0.349 | 4.60E-291 | ductal | EREG |
| RPS20.1 | 2.44E-295 | -0.931541542 | 0.925 | 0.924 | 5.89E-291 | ductal | RPS20 |
| PRSS23.1 | 8.79E-295 | -0.927162491 | 0.087 | 0.304 | 2.12E-290 | ductal | PRSS23 |
| RPL35.1 | 2.23E-292 | -0.547413043 | 0.12 | 0.371 | 5.38E-288 | ductal | RPL35 |
| PTMA.1 | 9.27E-285 | -0.70340638 | 0.487 | 0.703 | 2.23E-280 | ductal | PTMA |
| C8orf4.1 | 2.34E-284 | -0.70153973 | 0.332 | 0.635 | 5.64E-280 | ductal | C8orf4 |
| ALCAM.1 | 1.91E-279 | -1.006126082 | 0.375 | 0.597 | 4.62E-275 | ductal | ALCAM |
| MT-CO3.1 | 4.71E-276 | -0.388237544 | 0.992 | 0.997 | 1.13E-271 | ductal | MT-CO3 |
| CPEB2.1 | 5.00E-274 | -0.918324418 | 0.167 | 0.397 | 1.21E-269 | ductal | CPEB2 |
| PRDX1.1 | 5.92E-274 | 0.869905189 | 0.765 | 0.637 | 1.43E-269 | ductal | PRDX1 |
| FAM129A.1 | 7.40E-272 | 1.19688608 | 0.402 | 0.197 | 1.79E-267 | ductal | FAM129A |
| SLC26A3.1 | 2.34E-264 | 0.696763643 | 0.864 | 0.746 | 5.65E-260 | ductal | SLC26A3 |
| EFHD1.1 | 6.92E-264 | -0.853468492 | 0.162 | 0.386 | 1.67E-259 | ductal | EFHD1 |
| AFF3.1 | 3.93E-261 | -1.109166937 | 0.199 | 0.426 | 9.49E-257 | ductal | AFF3 |
| ARRDC3.1 | 2.60E-256 | 0.864813579 | 0.519 | 0.305 | 6.27E-252 | ductal | ARRDC3 |
| SEC62.1 | 5.01E-255 | 0.643444507 | 0.693 | 0.511 | 1.21E-250 | ductal | SEC62 |
| POMP.1 | 2.82E-252 | 0.688236785 | 0.723 | 0.579 | 6.80E-248 | ductal | POMP |
| TNC.1 | 6.45E-252 | -0.980565083 | 0.197 | 0.415 | 1.55E-247 | ductal | TNC |
| HSP90AB1.1 | 1.51E-249 | 0.582403055 | 0.895 | 0.807 | 3.65E-245 | ductal | HSP90AB1 |
| RPS7.1 | 1.32E-247 | 0.339920161 | 0.963 | 0.889 | 3.18E-243 | ductal | RPS7 |
| H2AFZ.1 | 4.11E-246 | -0.742461407 | 0.568 | 0.733 | 9.92E-242 | ductal | H2AFZ |
| EFNA1.1 | 5.17E-246 | -0.902050068 | 0.115 | 0.316 | 1.25E-241 | ductal | EFNA1 |
| MYBPC1.1 | 1.35E-245 | -1.038135522 | 0.106 | 0.311 | 3.25E-241 | ductal | MYBPC1 |
| BIRC3.1 | 4.91E-244 | 0.74761515 | 0.73 | 0.543 | 1.18E-239 | ductal | BIRC3 |
| RAB11FIP1 | 1.68E-243 | -0.930657497 | 0.658 | 0.781 | 4.04E-239 | ductal | RAB11FIP1 |
| CXCL13.1 | 5.97E-243 | -0.648141877 | 0.269 | 0.5 | 1.44E-238 | ductal | CXCL13 |
| KIAA1324.1 | 1.14E-238 | -0.702053588 | 0.106 | 0.304 | 2.75E-234 | ductal | KIAA1324 |
| RPL9.1 | 8.72E-237 | 0.666902878 | 0.675 | 0.508 | 2.10E-232 | ductal | RPL9 |
| SMIM14.1 | 1.82E-236 | -0.781861995 | 0.269 | 0.48 | 4.39E-232 | ductal | SMIM14 |
| TBX3.1 | 2.11E-236 | -0.798212627 | 0.145 | 0.348 | 5.09E-232 | ductal | TBX3 |

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| RPS6.1 | 4.18E-235 | 0.40453666 | 0.985 | 0.974 | 1.01E-230 | ductal | RPS6 |
| MAML2.1 | 4.28E-234 | 0.787481138 | 0.554 | 0.336 | 1.03E-229 | ductal | MAML2 |
| GLIS3.1 | 2.35E-231 | 0.801683136 | 0.265 | 0.099 | 5.66E-227 | ductal | GLIS3 |
| SLC28A3.1 | 4.17E-231 | 0.719107526 | 0.286 | 0.113 | 1.01E-226 | ductal | SLC28A3 |
| BTG1.1 | 1.39E-230 | -0.69733317 | 0.461 | 0.655 | 3.35E-226 | ductal | BTG1 |
| TSPAN5.1 | 2.32E-230 | -0.859026918 | 0.178 | 0.389 | 5.61E-226 | ductal | TSPAN5 |
| RASGEF1B. | 1.14E-229 | 0.541126374 | 0.947 | 0.859 | 2.76E-225 | ductal | RASGEF1B |
| ADAMTS9. | 1.36E-229 | 1.003982756 | 0.329 | 0.144 | 3.29E-225 | ductal | ADAMTS9 |
| ST6GALNA5 | 5.46E-228 | 0.975553795 | 0.297 | 0.122 | 1.32E-223 | ductal | ST6GALNA5 |
| RNF181.1 | 6.48E-228 | 0.702127179 | 0.51 | 0.315 | 1.56E-223 | ductal | RNF181 |
| FXYD3.1 | 1.44E-225 | -0.739965568 | 0.518 | 0.704 | 3.47E-221 | ductal | FXYD3 |
| SLC7A2.1 | 6.79E-225 | -0.771745132 | 0.173 | 0.38 | 1.64E-220 | ductal | SLC7A2 |
| C15orf48.1 | 1.16E-224 | 1.303795184 | 0.606 | 0.436 | 2.80E-220 | ductal | C15orf48 |
| GABRP.1 | 5.48E-223 | 0.873785178 | 0.385 | 0.195 | 1.32E-218 | ductal | GABRP |
| SNU13.1 | 3.13E-222 | -0.64135365 | 0.347 | 0.556 | 7.55E-218 | ductal | SNU13 |
| UGCG.1 | 3.04E-220 | -0.679530662 | 0.36 | 0.569 | 7.34E-216 | ductal | UGCG |
| HNRNPA1. | 4.60E-219 | 0.665213457 | 0.836 | 0.713 | 1.11E-214 | ductal | HNRNPA1 |
| CPE.1 | 3.62E-211 | -0.738412275 | 0.094 | 0.273 | 8.73E-207 | ductal | CPE |
| FGF13.1 | 7.94E-208 | -0.860223233 | 0.33 | 0.529 | 1.91E-203 | ductal | FGF13 |
| RPL11.1 | 2.21E-207 | 0.309488245 | 0.98 | 0.947 | 5.32E-203 | ductal | RPL11 |
| DYNLRB1.1 | 7.63E-205 | -0.557545789 | 0.186 | 0.391 | 1.84E-200 | ductal | DYNLRB1 |
| MAP3K13. | 3.14E-204 | 0.780528994 | 0.715 | 0.566 | 7.58E-200 | ductal | MAP3K13 |
| SOX4.1 | 4.06E-203 | -0.454278113 | 0.743 | 0.897 | 9.78E-199 | ductal | SOX4 |
| RPS17.1 | 9.15E-202 | 0.384511078 | 0.964 | 0.927 | 2.21E-197 | ductal | RPS17 |
| RPS27A.1 | 3.48E-201 | 0.273840503 | 0.985 | 0.962 | 8.39E-197 | ductal | RPS27A |
| RPL37.1 | 4.54E-200 | 0.333427488 | 0.967 | 0.933 | 1.09E-195 | ductal | RPL37 |
| ANKS1B.1 | 1.05E-199 | -0.768393564 | 0.338 | 0.536 | 2.52E-195 | ductal | ANKS1B |
| SELK.1 | 9.39E-199 | 0.601320794 | 0.711 | 0.553 | 2.26E-194 | ductal | SELK |
| PSMA3.1 | 2.78E-198 | 0.672356934 | 0.452 | 0.272 | 6.71E-194 | ductal | PSMA3 |
| STAT5B.1 | 4.42E-196 | -0.675069398 | 0.211 | 0.407 | 1.06E-191 | ductal | STAT5B |
| APBB2.1 | 3.66E-191 | -0.786350288 | 0.147 | 0.326 | 8.81E-187 | ductal | APBB2 |
| LINGO1.1 | 1.31E-190 | 0.48281975 | 0.938 | 0.86 | 3.16E-186 | ductal | LINGO1 |
| DAPP1.1 | 6.51E-188 | 0.770088616 | 0.347 | 0.181 | 1.57E-183 | ductal | DAPP1 |
| FBLN5.1 | 3.24E-184 | 1.165776883 | 0.259 | 0.112 | 7.82E-180 | ductal | FBLN5 |
| NDRG1.1 | 2.62E-183 | 0.749438558 | 0.465 | 0.286 | 6.32E-179 | ductal | NDRG1 |
| MAP3K1.1 | 3.19E-183 | -0.754777275 | 0.342 | 0.53 | 7.69E-179 | ductal | MAP3K1 |
| EPS8.1 | 4.78E-183 | 0.78619943 | 0.428 | 0.257 | 1.15E-178 | ductal | EPS8 |
| RPL31.1 | 2.16E-181 | 0.39557886 | 0.958 | 0.905 | 5.22E-177 | ductal | RPL31 |
| ITGAV.1 | 6.23E-179 | -0.672675221 | 0.284 | 0.472 | 1.50E-174 | ductal | ITGAV |
| COMMD6. | 3.98E-178 | -0.543039763 | 0.236 | 0.428 | 9.60E-174 | ductal | COMMD6 |
| ACTN1.1 | 1.59E-177 | -0.65542962 | 0.226 | 0.415 | 3.83E-173 | ductal | ACTN1 |
| SAA1.1 | 9.97E-177 | -0.30023426 | 0.816 | 0.681 | 2.40E-172 | ductal | SAA1 |
| CCL20.1 | 3.93E-176 | 2.082814658 | 0.277 | 0.129 | 9.48E-172 | ductal | CCL20 |
| CALD1.1 | 1.76E-175 | 0.902221841 | 0.409 | 0.233 | 4.23E-171 | ductal | CALD1 |
| PSMB7.1 | 2.46E-175 | 0.639444538 | 0.554 | 0.394 | 5.92E-171 | ductal | PSMB7 |
| PSMC1.1 | 8.40E-175 | 0.596301598 | 0.384 | 0.218 | 2.03E-170 | ductal | PSMC1 |
| GNA12.1 | 2.83E-174 | 0.652016769 | 0.404 | 0.239 | 6.83E-170 | ductal | GNA12 |

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| TAGLN2.1 | 2.90E-173 | -0.480140323 | 0.114 | 0.284 | 6.99E-169 | ductal | TAGLN2 |
| MYL12A.1 | 1.24E-172 | 0.53777542 | 0.895 | 0.851 | 3.00E-168 | ductal | MYL12A |
| CTSB.1 | 8.21E-172 | -0.626395151 | 0.183 | 0.357 | 1.98E-167 | ductal | CTSB |
| RP1-78O14 | 5.39E-171 | -0.876106024 | 0.106 | 0.265 | 1.30E-166 | ductal | RP1-78O14.1 |
| CD59.1 | 1.01E-169 | 0.686050045 | 0.897 | 0.874 | 2.44E-165 | ductal | CD59 |
| ELOVL5.1 | 1.02E-169 | -0.810120108 | 0.188 | 0.362 | 2.46E-165 | ductal | ELOVL5 |
| RP11-608O | 1.06E-169 | 0.631946125 | 0.645 | 0.476 | 2.55E-165 | ductal | RP11-608O21.1 |
| ARHGAP26 | 4.21E-169 | 0.595104939 | 0.761 | 0.611 | 1.01E-164 | ductal | ARHGAP26 |
| CA8.1 | 1.04E-168 | 0.791629386 | 0.336 | 0.177 | 2.50E-164 | ductal | CA8 |
| COX7C.1 | 1.01E-167 | 0.346659587 | 0.902 | 0.856 | 2.43E-163 | ductal | COX7C |
| RPL30.1 | 1.82E-166 | 0.297807521 | 0.974 | 0.941 | 4.39E-162 | ductal | RPL30 |
| SEMA3C.1 | 4.42E-166 | -0.751627584 | 0.174 | 0.346 | 1.07E-161 | ductal | SEMA3C |
| LYN.1 | 7.63E-166 | 0.783722607 | 0.515 | 0.347 | 1.84E-161 | ductal | LYN |
| NEBL.1 | 2.08E-165 | -0.654932969 | 0.571 | 0.72 | 5.01E-161 | ductal | NEBL |
| DUSP16.1 | 7.36E-165 | -0.624347037 | 0.31 | 0.491 | 1.77E-160 | ductal | DUSP16 |
| RPLP1.1 | 6.91E-164 | -0.278187617 | 0.174 | 0.359 | 1.67E-159 | ductal | RPLP1 |
| RPL23.1 | 4.93E-163 | 0.350625652 | 0.945 | 0.899 | 1.19E-158 | ductal | RPL23 |
| GSTM3.1 | 4.67E-162 | -0.885069579 | 0.222 | 0.394 | 1.13E-157 | ductal | GSTM3 |
| DNAJC12.1 | 1.51E-161 | -0.551734973 | 0.268 | 0.467 | 3.63E-157 | ductal | DNAJC12 |
| EFNA5.1 | 1.61E-161 | 0.728056884 | 0.385 | 0.221 | 3.88E-157 | ductal | EFNA5 |
| RPL12.1 | 2.38E-161 | -0.540548362 | 0.18 | 0.352 | 5.75E-157 | ductal | RPL12 |
| MT-ND4.1 | 1.01E-160 | -0.324124623 | 0.991 | 0.995 | 2.43E-156 | ductal | MT-ND4 |
| SLC39A6.1 | 1.82E-159 | -0.577589293 | 0.195 | 0.369 | 4.39E-155 | ductal | SLC39A6 |
| RPS9.1 | 2.00E-158 | -0.300883311 | 0.123 | 0.295 | 4.83E-154 | ductal | RPS9 |
| RSL24D1.1 | 2.40E-158 | 0.486832265 | 0.663 | 0.499 | 5.79E-154 | ductal | RSL24D1 |
| SLC27A4.1 | 2.82E-156 | 0.840966834 | 0.787 | 0.656 | 6.80E-152 | ductal | SLC27A4 |
| PSD3.1 | 1.83E-154 | -0.701994758 | 0.242 | 0.412 | 4.42E-150 | ductal | PSD3 |
| CYP7B1.1 | 2.76E-154 | 1.000354873 | 0.323 | 0.177 | 6.66E-150 | ductal | CYP7B1 |
| NCEH1.1 | 6.38E-154 | -0.746132164 | 0.313 | 0.476 | 1.54E-149 | ductal | NCEH1 |
| SUB1.1 | 1.02E-152 | 0.503317303 | 0.718 | 0.591 | 2.47E-148 | ductal | SUB1 |
| NACA.1 | 1.25E-152 | 0.268387352 | 0.945 | 0.887 | 3.01E-148 | ductal | NACA |
| GAPDH.1 | 3.79E-152 | -0.44928616 | 0.457 | 0.632 | 9.14E-148 | ductal | GAPDH |
| ERGIC3.1 | 3.93E-152 | -0.530297915 | 0.221 | 0.39 | 9.48E-148 | ductal | ERGIC3 |
| INSIG2.1 | 5.38E-152 | 0.61660419 | 0.303 | 0.158 | 1.30E-147 | ductal | INSIG2 |
| SSR3.1 | 4.93E-151 | 0.58985524 | 0.542 | 0.387 | 1.19E-146 | ductal | SSR3 |
| GLCC1.1 | 7.04E-151 | -0.728450167 | 0.2 | 0.365 | 1.70E-146 | ductal | GLCC1 |
| LUCAT1.1 | 3.73E-149 | 0.637170112 | 0.296 | 0.149 | 8.99E-145 | ductal | LUCAT1 |
| LIPH.1 | 3.78E-149 | 1.104610882 | 0.401 | 0.257 | 9.12E-145 | ductal | LIPH |
| RPL35A.1 | 1.09E-148 | 0.282018205 | 0.977 | 0.942 | 2.64E-144 | ductal | RPL35A |
| XBP1.1 | 2.05E-148 | -0.746720838 | 0.289 | 0.455 | 4.95E-144 | ductal | XBP1 |
| PHLDB2.1 | 4.67E-148 | -0.647152125 | 0.315 | 0.484 | 1.13E-143 | ductal | PHLDB2 |
| ZFP36L2.1 | 1.06E-147 | -0.580034539 | 0.26 | 0.441 | 2.56E-143 | ductal | ZFP36L2 |
| TBC1D9.1 | 9.49E-147 | -0.565678292 | 0.34 | 0.517 | 2.29E-142 | ductal | TBC1D9 |
| DSTN.1 | 1.48E-146 | -0.571387199 | 0.486 | 0.645 | 3.57E-142 | ductal | DSTN |
| SYPL1.1 | 2.81E-146 | 0.545858312 | 0.469 | 0.315 | 6.79E-142 | ductal | SYPL1 |
| TMEM2.1 | 6.22E-146 | -0.705502468 | 0.244 | 0.412 | 1.50E-141 | ductal | TMEM2 |
| PIGR.1 | 9.70E-146 | 0.798067409 | 0.345 | 0.193 | 2.34E-141 | ductal | PIGR |

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| HSP90AA1. | 1.69E-144 | 0.428916187 | 0.898 | 0.829 | 4.07E-140 | ductal | HSP90AA1 |
| PVRL2.1 | 6.34E-144 | -0.594161244 | 0.185 | 0.346 | 1.53E-139 | ductal | PVRL2 |
| SNRPB2.1 | 7.90E-144 | 0.536304124 | 0.441 | 0.288 | 1.90E-139 | ductal | SNRPB2 |
| SRRM1.1 | 1.61E-143 | 0.508936276 | 0.629 | 0.483 | 3.89E-139 | ductal | SRRM1 |
| GLRX.1 | 2.14E-143 | 0.720974518 | 0.384 | 0.232 | 5.15E-139 | ductal | GLRX |
| MORF4L1.1 | 4.26E-143 | 0.4640838 | 0.703 | 0.589 | 1.03E-138 | ductal | MORF4L1 |
| MDH1.1 | 5.42E-143 | 0.551516358 | 0.372 | 0.22 | 1.31E-138 | ductal | MDH1 |
| TJP1.1 | 5.77E-143 | -0.594108106 | 0.407 | 0.57 | 1.39E-138 | ductal | TJP1 |
| TPK1.1 | 6.84E-143 | 0.546156919 | 0.297 | 0.157 | 1.65E-138 | ductal | TPK1 |
| CFLAR.1 | 1.22E-142 | 0.760128352 | 0.43 | 0.289 | 2.95E-138 | ductal | CFLAR |
| ITGA2.1 | 1.44E-141 | 0.787615698 | 0.483 | 0.335 | 3.48E-137 | ductal | ITGA2 |
| UGDH.1 | 1.95E-141 | -0.67422724 | 0.144 | 0.295 | 4.71E-137 | ductal | UGDH |
| SHROOM3. | 4.02E-141 | -0.455570914 | 0.531 | 0.693 | 9.68E-137 | ductal | SHROOM3 |
| AIMP1.1 | 4.83E-140 | 0.579739894 | 0.397 | 0.247 | 1.16E-135 | ductal | AIMP1 |
| ERBB2IP.1 | 2.34E-139 | -0.638782125 | 0.329 | 0.49 | 5.64E-135 | ductal | ERBB2IP |
| TCF12.1 | 6.08E-139 | -0.464128449 | 0.493 | 0.656 | 1.47E-134 | ductal | TCF12 |
| RPS24.1 | 4.56E-138 | 0.264749132 | 0.98 | 0.958 | 1.10E-133 | ductal | RPS24 |
| ZNF644.1 | 3.58E-137 | -0.620950011 | 0.371 | 0.533 | 8.62E-133 | ductal | ZNF644 |
| JUP.1 | 7.12E-137 | -0.505519355 | 0.17 | 0.325 | 1.72E-132 | ductal | JUP |
| PAWR.1 | 1.70E-136 | -0.552275913 | 0.45 | 0.611 | 4.10E-132 | ductal | PAWR |
| SARNP.1 | 4.17E-136 | 0.521306309 | 0.285 | 0.149 | 1.00E-131 | ductal | SARNP |
| NR6A1.1 | 6.70E-136 | -0.722521824 | 0.253 | 0.413 | 1.61E-131 | ductal | NR6A1 |
| SVIL.1 | 3.67E-135 | 0.555515178 | 0.669 | 0.536 | 8.85E-131 | ductal | SVIL |
| HIPK2.1 | 5.11E-135 | -0.507886587 | 0.273 | 0.436 | 1.23E-130 | ductal | HIPK2 |
| RPL36AL.1 | 6.20E-135 | 0.339714751 | 0.917 | 0.869 | 1.50E-130 | ductal | RPL36AL |
| INPP4B.1 | 1.12E-134 | -0.574756628 | 0.224 | 0.395 | 2.69E-130 | ductal | INPP4B |
| ZBTB10.1 | 4.89E-134 | -0.563426585 | 0.164 | 0.315 | 1.18E-129 | ductal | ZBTB10 |
| USMG5.1 | 2.45E-133 | 0.388347795 | 0.718 | 0.577 | 5.91E-129 | ductal | USMG5 |
| SYTL2.1 | 4.96E-133 | -0.494628622 | 0.337 | 0.523 | 1.20E-128 | ductal | SYTL2 |
| TULP4.1 | 5.88E-133 | -0.496578411 | 0.399 | 0.564 | 1.42E-128 | ductal | TULP4 |
| GADD45A.1 | 2.88E-132 | -0.591891956 | 0.173 | 0.325 | 6.95E-128 | ductal | GADD45A |
| TM4SF1.1 | 3.02E-132 | 0.820894879 | 0.917 | 0.901 | 7.27E-128 | ductal | TM4SF1 |
| DRAM1.1 | 1.10E-131 | -0.573174817 | 0.201 | 0.356 | 2.65E-127 | ductal | DRAM1 |
| MT-CYB.1 | 2.91E-131 | -0.250290392 | 0.988 | 0.993 | 7.02E-127 | ductal | MT-CYB |
| TBL1XR1.1 | 1.27E-130 | -0.63412192 | 0.499 | 0.633 | 3.07E-126 | ductal | TBL1XR1 |
| LARP1B.1 | 6.62E-129 | -0.596218661 | 0.132 | 0.271 | 1.60E-124 | ductal | LARP1B |
| DYNLL1.1 | 3.97E-128 | -0.51672953 | 0.154 | 0.301 | 9.57E-124 | ductal | DYNLL1 |
| MYL6.1 | 6.18E-128 | 0.43021124 | 0.95 | 0.925 | 1.49E-123 | ductal | MYL6 |
| BCAR3.1 | 1.29E-126 | -0.670881335 | 0.191 | 0.335 | 3.11E-122 | ductal | BCAR3 |
| SERPINA3.1 | 3.28E-126 | 0.719029256 | 0.35 | 0.216 | 7.90E-122 | ductal | SERPINA3 |
| BRK1.1 | 5.18E-126 | 0.43935 | 0.683 | 0.563 | 1.25E-121 | ductal | BRK1 |
| ATP5G2.1 | 8.93E-126 | -0.551158505 | 0.691 | 0.767 | 2.15E-121 | ductal | ATP5G2 |
| MBNL2.1 | 1.59E-125 | -0.492649112 | 0.446 | 0.603 | 3.84E-121 | ductal | MBNL2 |
| RPL13.1 | 2.89E-125 | -0.47869586 | 0.316 | 0.482 | 6.97E-121 | ductal | RPL13 |
| TOM1L2.1 | 3.21E-125 | -0.552212901 | 0.209 | 0.358 | 7.74E-121 | ductal | TOM1L2 |
| RERE.1 | 4.49E-125 | -0.481728123 | 0.478 | 0.628 | 1.08E-120 | ductal | RERE |
| DDX24.1 | 1.23E-123 | 0.530661633 | 0.586 | 0.46 | 2.96E-119 | ductal | DDX24 |

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| FRMD4A.1 | 1.68E-123 | 0.691605137 | 0.365 | 0.226 | 4.05E-119 | ductal | FRMD4A |
| RPL13A.1 | 3.21E-123 | -0.341798005 | 0.369 | 0.546 | 7.74E-119 | ductal | RPL13A |
| RPL36.1 | 8.14E-123 | -0.43168049 | 0.112 | 0.254 | 1.96E-118 | ductal | RPL36 |
| ELF3.1 | 1.76E-122 | -0.452200548 | 0.415 | 0.574 | 4.25E-118 | ductal | ELF3 |
| WTAP.1 | 1.93E-121 | 0.766635443 | 0.592 | 0.469 | 4.64E-117 | ductal | WTAP |
| TNFAIP8.1 | 7.17E-120 | 0.624425884 | 0.476 | 0.334 | 1.73E-115 | ductal | TNFAIP8 |
| DLGAP1.1 | 2.04E-118 | -0.65102927 | 0.123 | 0.255 | 4.92E-114 | ductal | DLGAP1 |
| CCNI.1 | 2.97E-118 | -0.376346244 | 0.536 | 0.684 | 7.15E-114 | ductal | CCNI |
| NEDD9.1 | 5.73E-118 | -0.476799396 | 0.274 | 0.433 | 1.38E-113 | ductal | NEDD9 |
| GOLM1.1 | 3.39E-117 | -0.515295912 | 0.15 | 0.287 | 8.17E-113 | ductal | GOLM1 |
| CCL28.1 | 5.25E-116 | 0.535635641 | 0.464 | 0.308 | 1.27E-111 | ductal | CCL28 |
| C8orf37-AS | 7.76E-116 | 0.455944106 | 0.332 | 0.196 | 1.87E-111 | ductal | C8orf37-AS1 |
| NUB1.1 | 1.54E-115 | 0.669692942 | 0.269 | 0.148 | 3.71E-111 | ductal | NUB1 |
| PCBP2.1 | 2.40E-115 | -0.396421323 | 0.478 | 0.628 | 5.79E-111 | ductal | PCBP2 |
| FUT8.1 | 2.82E-115 | -0.614195043 | 0.175 | 0.314 | 6.80E-111 | ductal | FUT8 |
| IGF2BP2.1 | 4.09E-115 | 0.678612181 | 0.355 | 0.223 | 9.87E-111 | ductal | IGF2BP2 |
| UQCR10.1 | 1.14E-114 | -0.486704002 | 0.417 | 0.564 | 2.76E-110 | ductal | UQCR10 |
| BCL2.1 | 1.20E-114 | -0.752650286 | 0.189 | 0.326 | 2.90E-110 | ductal | BCL2 |
| APLP2.1 | 2.11E-114 | -0.488435287 | 0.192 | 0.332 | 5.08E-110 | ductal | APLP2 |
| SEPT7.1 | 3.16E-114 | 0.479972235 | 0.461 | 0.324 | 7.62E-110 | ductal | 7-Sep |
| OPHN1.1 | 5.42E-114 | -0.615259305 | 0.238 | 0.385 | 1.31E-109 | ductal | OPHN1 |
| PAN3.1 | 7.51E-114 | -0.448872024 | 0.552 | 0.691 | 1.81E-109 | ductal | PAN3 |
| CHCHD3.1 | 2.19E-113 | -0.424683539 | 0.807 | 0.855 | 5.28E-109 | ductal | CHCHD3 |
| TCEANC2.1 | 2.38E-113 | 0.474153791 | 0.324 | 0.191 | 5.75E-109 | ductal | TCEANC2 |
| RAPH1.1 | 6.09E-113 | -0.588253214 | 0.25 | 0.391 | 1.47E-108 | ductal | RAPH1 |
| ARHGEF12 | 1.14E-112 | -0.409701619 | 0.481 | 0.637 | 2.76E-108 | ductal | ARHGEF12 |
| THRB.1 | 2.48E-111 | -0.632787913 | 0.377 | 0.513 | 5.99E-107 | ductal | THRB |
| COX7A2.1 | 3.31E-111 | 0.359896281 | 0.81 | 0.736 | 7.98E-107 | ductal | COX7A2 |
| PDCD10.1 | 6.96E-111 | 0.485007289 | 0.334 | 0.205 | 1.68E-106 | ductal | PDCD10 |
| PCBP1.1 | 2.69E-110 | -0.405904835 | 0.411 | 0.563 | 6.48E-106 | ductal | PCBP1 |
| MT-ND3.1 | 5.06E-110 | -0.363454835 | 0.978 | 0.993 | 1.22E-105 | ductal | MT-ND3 |
| TMEM258 | 1.28E-109 | 0.388372324 | 0.667 | 0.56 | 3.09E-105 | ductal | TMEM258 |
| CCT5.1 | 2.48E-109 | 0.545364241 | 0.377 | 0.249 | 5.98E-105 | ductal | CCT5 |
| EIF3E.1 | 5.84E-109 | 0.336318686 | 0.675 | 0.517 | 1.41E-104 | ductal | EIF3E |
| DAD1.1 | 2.53E-108 | 0.438874664 | 0.574 | 0.452 | 6.10E-104 | ductal | DAD1 |
| NFKBIZ.1 | 3.46E-108 | 0.567429197 | 0.626 | 0.521 | 8.35E-104 | ductal | NFKBIZ |
| CLDN1.1 | 8.19E-108 | 0.86016884 | 0.304 | 0.184 | 1.98E-103 | ductal | CLDN1 |
| RORA.1 | 4.86E-107 | -0.629302975 | 0.494 | 0.622 | 1.17E-102 | ductal | RORA |
| ILF2.1 | 5.15E-107 | 0.516245772 | 0.512 | 0.383 | 1.24E-102 | ductal | ILF2 |
| NEDD4L.1 | 5.29E-107 | -0.534585889 | 0.514 | 0.651 | 1.27E-102 | ductal | NEDD4L |
| PSMC2.1 | 4.61E-106 | 0.408126065 | 0.299 | 0.173 | 1.11E-101 | ductal | PSMC2 |
| MAGI3.1 | 5.35E-106 | -0.494083714 | 0.294 | 0.439 | 1.29E-101 | ductal | MAGI3 |
| VPS29.1 | 1.19E-105 | 0.479581926 | 0.403 | 0.273 | 2.86E-101 | ductal | VPS29 |
| WFDC2.1 | 8.07E-104 | 1.256736964 | 0.407 | 0.277 | 1.95E-99 | ductal | WFDC2 |
| IK.1 | 1.37E-102 | 0.403866628 | 0.261 | 0.143 | 3.31E-98 | ductal | IK |
| UBB.1 | 6.19E-102 | 0.313924224 | 0.784 | 0.685 | 1.49E-97 | ductal | UBB |
| RPL29.1 | 2.18E-101 | -0.450430826 | 0.152 | 0.288 | 5.26E-97 | ductal | RPL29 |

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| KTN1.1 | 6.26E-101 | -0.45900334 | 0.461 | 0.593 | 1.51E-96 ductal | KTN1 |
| RARRES3.1 | 2.16E-100 | 0.551553656 | 0.294 | 0.176 | 5.22E-96 ductal | RARRES3 |
| KIAA1522.1 | 2.52E-100 | -0.404204919 | 0.15 | 0.279 | 6.08E-96 ductal | KIAA1522 |
| TAOK3.1 | 6.55E-100 | -0.453811172 | 0.389 | 0.527 | 1.58E-95 ductal | TAOK3 |
| GSPT1.1 | 8.14E-100 | -0.471803867 | 0.286 | 0.421 | 1.96E-95 ductal | GSPT1 |
| TANK.1 | 1.43E-99 | 0.469647042 | 0.552 | 0.429 | 3.45E-95 ductal | TANK |
| HIST1H2AC | 2.27E-99 | -0.404669815 | 0.274 | 0.422 | 5.47E-95 ductal | HIST1H2AC |
| RANBP9.1 | 2.45E-99 | -0.445225884 | 0.217 | 0.35 | 5.91E-95 ductal | RANBP9 |
| BCL6.1 | 2.47E-99 | -0.475456504 | 0.272 | 0.412 | 5.96E-95 ductal | BCL6 |
| GBP2.1 | 7.89E-99 | 0.521539881 | 0.679 | 0.578 | 1.90E-94 ductal | GBP2 |
| DEFB1.1 | 3.33E-98 | 0.324502309 | 0.538 | 0.382 | 8.03E-94 ductal | DEFB1 |
| MYH9.1 | 3.38E-98 | -0.429572375 | 0.425 | 0.571 | 8.16E-94 ductal | MYH9 |
| FLNB.1 | 4.39E-98 | -0.441549362 | 0.365 | 0.515 | 1.06E-93 ductal | FLNB |
| EGFR.1 | 1.29E-97 | 0.501522331 | 0.25 | 0.138 | 3.12E-93 ductal | EGFR |
| PRLR.1 | 1.56E-97 | -0.50541528 | 0.16 | 0.285 | 3.75E-93 ductal | PRLR |
| DGKH.1 | 6.04E-97 | -0.535177422 | 0.228 | 0.359 | 1.46E-92 ductal | DGKH |
| OOEP.1 | 1.05E-96 | 0.26003172 | 0.978 | 0.958 | 2.53E-92 ductal | OOEP |
| C4orf3.1 | 1.21E-96 | 0.422379174 | 0.61 | 0.493 | 2.91E-92 ductal | C4orf3 |
| SLIRP.1 | 2.50E-96 | 0.386596175 | 0.394 | 0.261 | 6.03E-92 ductal | SLIRP |
| COL4A5.1 | 5.63E-96 | -0.476551275 | 0.145 | 0.267 | 1.36E-91 ductal | COL4A5 |
| KCTD9.1 | 5.71E-96 | 0.569250056 | 0.306 | 0.192 | 1.38E-91 ductal | KCTD9 |
| SSBP1.1 | 7.12E-96 | 0.491813825 | 0.436 | 0.317 | 1.72E-91 ductal | SSBP1 |
| UBL5.1 | 1.12E-95 | -0.527060584 | 0.439 | 0.554 | 2.71E-91 ductal | UBL5 |
| LRBA.1 | 1.72E-95 | -0.419550399 | 0.559 | 0.689 | 4.15E-91 ductal | LRBA |
| PKP4.1 | 2.02E-95 | -0.447764536 | 0.419 | 0.555 | 4.87E-91 ductal | PKP4 |
| FARP1.1 | 2.55E-95 | -0.44578121 | 0.294 | 0.434 | 6.16E-91 ductal | FARP1 |
| AGR2.1 | 2.57E-95 | -0.30205311 | 0.161 | 0.296 | 6.20E-91 ductal | AGR2 |
| CDCP1.1 | 3.00E-95 | 0.480003646 | 0.355 | 0.234 | 7.24E-91 ductal | CDCP1 |
| SSBP2.1 | 1.39E-94 | -0.548998443 | 0.358 | 0.486 | 3.36E-90 ductal | SSBP2 |
| ENAH.1 | 1.94E-94 | -0.382229916 | 0.467 | 0.606 | 4.67E-90 ductal | ENAH |
| ATP8B1.1 | 2.53E-94 | -0.563727092 | 0.325 | 0.454 | 6.10E-90 ductal | ATP8B1 |
| ACTB.1 | 1.36E-93 | -0.504181829 | 0.566 | 0.691 | 3.29E-89 ductal | ACTB |
| NCOA7.1 | 1.69E-93 | 0.528021603 | 0.523 | 0.392 | 4.07E-89 ductal | NCOA7 |
| TAX1BP1.1 | 7.84E-93 | 0.387708739 | 0.683 | 0.591 | 1.89E-88 ductal | TAX1BP1 |
| KLHL5.1 | 1.35E-92 | -0.49024559 | 0.21 | 0.333 | 3.26E-88 ductal | KLHL5 |
| INO80D.1 | 1.47E-92 | 0.433569653 | 0.643 | 0.525 | 3.55E-88 ductal | INO80D |
| INTS6.1 | 2.42E-92 | -0.482099005 | 0.205 | 0.331 | 5.83E-88 ductal | INTS6 |
| RBM8A.1 | 2.64E-92 | 0.451991592 | 0.504 | 0.388 | 6.37E-88 ductal | RBM8A |
| UGP2.1 | 1.13E-91 | 0.445413039 | 0.51 | 0.393 | 2.72E-87 ductal | UGP2 |
| RASEF.1 | 1.14E-91 | -0.443556131 | 0.195 | 0.322 | 2.74E-87 ductal | RASEF |
| RNF145.1 | 2.85E-91 | 0.510498639 | 0.416 | 0.293 | 6.88E-87 ductal | RNF145 |
| ERH.1 | 1.18E-90 | 0.431215201 | 0.572 | 0.467 | 2.83E-86 ductal | ERH |
| MTHFD2L.1 | 3.89E-90 | 0.686735803 | 0.476 | 0.359 | 9.38E-86 ductal | MTHFD2L |
| KAZN.1 | 7.31E-90 | -0.478279517 | 0.146 | 0.263 | 1.76E-85 ductal | KAZN |
| GAB1.1 | 1.03E-89 | -0.405442753 | 0.302 | 0.437 | 2.48E-85 ductal | GAB1 |
| CUX1.1 | 1.40E-89 | -0.453569364 | 0.271 | 0.399 | 3.38E-85 ductal | CUX1 |
| CD24.1 | 1.60E-89 | -0.490042078 | 0.502 | 0.628 | 3.87E-85 ductal | CD24 |

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|-------------------|----------|--------------|-------|-------|-----------------|---------------|
| REEP5.1 | 3.74E-89 | -0.419704702 | 0.179 | 0.3 | 9.03E-85 ductal | REEP5 |
| C16orf45.1 | 1.21E-88 | -0.490665897 | 0.157 | 0.274 | 2.91E-84 ductal | C16orf45 |
| LDHA.1 | 1.48E-88 | 0.40430431 | 0.732 | 0.631 | 3.57E-84 ductal | LDHA |
| NAALADL2. | 2.03E-88 | -0.519389727 | 0.428 | 0.55 | 4.90E-84 ductal | NAALADL2 |
| LPP.1 | 2.62E-88 | -0.283221099 | 0.886 | 0.933 | 6.33E-84 ductal | LPP |
| ATP6V0E1. | 4.02E-88 | -0.336563524 | 0.628 | 0.734 | 9.69E-84 ductal | ATP6V0E1 |
| UBN2.1 | 9.17E-88 | -0.422434202 | 0.197 | 0.323 | 2.21E-83 ductal | UBN2 |
| WWC1.1 | 3.70E-87 | -0.425853786 | 0.337 | 0.47 | 8.91E-83 ductal | WWC1 |
| GNB1.1 | 5.04E-87 | -0.376568774 | 0.266 | 0.395 | 1.22E-82 ductal | GNB1 |
| RPLP2.1 | 9.97E-87 | -0.272581828 | 0.149 | 0.273 | 2.40E-82 ductal | RPLP2 |
| RPS16.1 | 1.19E-86 | -0.269740605 | 0.225 | 0.361 | 2.87E-82 ductal | RPS16 |
| OSBPL3.1 | 1.76E-86 | -0.430694264 | 0.159 | 0.277 | 4.25E-82 ductal | OSBPL3 |
| DDX18.1 | 2.43E-86 | 0.452548244 | 0.362 | 0.247 | 5.86E-82 ductal | DDX18 |
| BTRC.1 | 2.85E-86 | -0.418013619 | 0.188 | 0.311 | 6.87E-82 ductal | BTRC |
| DCTN6.1 | 6.92E-86 | 0.410005218 | 0.353 | 0.236 | 1.67E-81 ductal | DCTN6 |
| MTRNR2L1 | 1.45E-85 | 0.445570476 | 0.296 | 0.182 | 3.49E-81 ductal | MTRNR2L12 |
| ATP6V1D.1 | 5.48E-85 | 0.447507412 | 0.348 | 0.234 | 1.32E-80 ductal | ATP6V1D |
| NOS1AP.1 | 7.35E-85 | -0.392018069 | 0.146 | 0.262 | 1.77E-80 ductal | NOS1AP |
| ARIH1.1 | 7.94E-85 | -0.358342719 | 0.428 | 0.558 | 1.91E-80 ductal | ARIH1 |
| CADPS2.1 | 2.76E-84 | -0.812529508 | 0.33 | 0.45 | 6.65E-80 ductal | CADPS2 |
| ACSL3.1 | 5.42E-84 | -0.502507057 | 0.259 | 0.385 | 1.31E-79 ductal | ACSL3 |
| DLG5.1 | 1.56E-83 | -0.507795065 | 0.191 | 0.308 | 3.77E-79 ductal | DLG5 |
| PSMB5.1 | 1.88E-83 | -0.342252129 | 0.168 | 0.286 | 4.53E-79 ductal | PSMB5 |
| DNAJB6.1 | 2.07E-83 | -0.410855487 | 0.304 | 0.432 | 5.00E-79 ductal | DNAJB6 |
| ARF4.1 | 3.74E-83 | 0.381664297 | 0.675 | 0.587 | 9.03E-79 ductal | ARF4 |
| CDH1.1 | 6.26E-83 | -0.381034973 | 0.533 | 0.651 | 1.51E-78 ductal | CDH1 |
| STOM.1 | 1.00E-82 | -0.483360414 | 0.191 | 0.307 | 2.42E-78 ductal | STOM |
| CDK13.1 | 1.37E-82 | -0.469812038 | 0.348 | 0.472 | 3.31E-78 ductal | CDK13 |
| ESD.1 | 1.40E-82 | 0.409925162 | 0.39 | 0.271 | 3.37E-78 ductal | ESD |
| EIF3H.1 | 2.27E-82 | -0.356386075 | 0.566 | 0.662 | 5.47E-78 ductal | EIF3H |
| PROM1.1 | 4.06E-82 | 0.482184222 | 0.298 | 0.187 | 9.79E-78 ductal | PROM1 |
| FNBP1.1 | 9.27E-82 | -0.358976005 | 0.443 | 0.579 | 2.24E-77 ductal | FNBP1 |
| ZNF292.1 | 1.22E-81 | 0.380201177 | 0.631 | 0.526 | 2.94E-77 ductal | ZNF292 |
| MAP4.1 | 1.45E-81 | -0.382585727 | 0.402 | 0.53 | 3.51E-77 ductal | MAP4 |
| MSI2.1 | 1.88E-81 | -0.421525241 | 0.268 | 0.391 | 4.54E-77 ductal | MSI2 |
| BARX2.1 | 3.33E-81 | 0.576248021 | 0.318 | 0.212 | 8.03E-77 ductal | BARX2 |
| SLC38A2.1 | 4.41E-81 | -0.448864111 | 0.302 | 0.432 | 1.06E-76 ductal | SLC38A2 |
| SLC4A7.1 | 4.57E-81 | 0.460169691 | 0.353 | 0.239 | 1.10E-76 ductal | SLC4A7 |
| FEZ2.1 | 5.04E-81 | 0.524341362 | 0.409 | 0.301 | 1.22E-76 ductal | FEZ2 |
| HERC4.1 | 6.71E-81 | -0.4540561 | 0.454 | 0.574 | 1.62E-76 ductal | HERC4 |
| GSK3B.1 | 8.18E-81 | -0.404604487 | 0.322 | 0.448 | 1.97E-76 ductal | GSK3B |
| SLCO3A1.1 | 1.91E-80 | 0.456573255 | 0.25 | 0.148 | 4.60E-76 ductal | SLCO3A1 |
| SPRED2.1 | 6.08E-80 | -0.403690653 | 0.145 | 0.255 | 1.47E-75 ductal | SPRED2 |
| RUFY3.1 | 6.68E-80 | -0.359411244 | 0.168 | 0.284 | 1.61E-75 ductal | RUFY3 |
| ZCCHC17.1 | 7.01E-80 | 0.442164769 | 0.327 | 0.219 | 1.69E-75 ductal | ZCCHC17 |
| ZFAND3.1 | 1.14E-79 | -0.379621661 | 0.714 | 0.79 | 2.76E-75 ductal | ZFAND3 |
| C1QTNF3- <i>A</i> | 3.19E-79 | -0.470015208 | 0.244 | 0.366 | 7.70E-75 ductal | C1QTNF3-AMACR |

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| EIF2S1.1 | 3.21E-79 | 0.410920679 | 0.264 | 0.162 | 7.74E-75 ductal | EIF2S1 |
| UBE2V2.1 | 7.87E-79 | 0.396879293 | 0.319 | 0.211 | 1.90E-74 ductal | UBE2V2 |
| AC072062. | 1.10E-78 | -0.377281525 | 0.391 | 0.523 | 2.66E-74 ductal | AC072062.1 |
| PPP6R3.1 | 2.58E-78 | -0.37005294 | 0.434 | 0.555 | 6.22E-74 ductal | PPP6R3 |
| MKL1.1 | 6.95E-78 | -0.355053666 | 0.417 | 0.546 | 1.68E-73 ductal | MKL1 |
| DYNLT1.1 | 8.66E-78 | 0.42050235 | 0.644 | 0.567 | 2.09E-73 ductal | DYNLT1 |
| DLEU2.1 | 1.56E-77 | -0.402673056 | 0.155 | 0.264 | 3.75E-73 ductal | DLEU2 |
| SRSF3.1 | 3.37E-77 | 0.565243137 | 0.496 | 0.396 | 8.13E-73 ductal | SRSF3 |
| TTL5.1 | 4.53E-77 | -0.43249548 | 0.212 | 0.328 | 1.09E-72 ductal | TTL5 |
| TSC22D2.1 | 5.79E-77 | -0.356861176 | 0.386 | 0.518 | 1.40E-72 ductal | TSC22D2 |
| SH3BGRL.1 | 4.25E-76 | -0.447215606 | 0.329 | 0.448 | 1.02E-71 ductal | SH3BGRL |
| FOXP1.1 | 6.62E-76 | -0.424250935 | 0.574 | 0.673 | 1.60E-71 ductal | FOXP1 |
| CTNND1.1 | 9.54E-76 | -0.345144908 | 0.319 | 0.444 | 2.30E-71 ductal | CTNND1 |
| MAST4.1 | 1.00E-75 | -0.434557449 | 0.454 | 0.575 | 2.42E-71 ductal | MAST4 |
| RBM47.1 | 1.29E-75 | -0.349722532 | 0.566 | 0.681 | 3.11E-71 ductal | RBM47 |
| TBL1X.1 | 2.32E-75 | -0.340851443 | 0.149 | 0.259 | 5.60E-71 ductal | TBL1X |
| SUSD6.1 | 3.32E-75 | -0.386732495 | 0.208 | 0.324 | 8.01E-71 ductal | SUSD6 |
| RP1-292B1 | 6.50E-75 | -0.301038952 | 0.146 | 0.257 | 1.57E-70 ductal | RP1-292B18.4 |
| YTHDC1.1 | 8.49E-75 | -0.37700193 | 0.309 | 0.432 | 2.05E-70 ductal | YTHDC1 |
| ANKRD11.1 | 9.31E-75 | -0.33368852 | 0.246 | 0.368 | 2.24E-70 ductal | ANKRD11 |
| EIF4A1.1 | 1.36E-73 | 0.428739541 | 0.472 | 0.364 | 3.27E-69 ductal | EIF4A1 |
| NHSL2.1 | 1.57E-73 | 0.378770636 | 0.349 | 0.24 | 3.80E-69 ductal | NHSL2 |
| COX7B.1 | 9.38E-73 | 0.336622942 | 0.682 | 0.605 | 2.26E-68 ductal | COX7B |
| DUSP10.1 | 1.28E-72 | -0.400883575 | 0.16 | 0.265 | 3.09E-68 ductal | DUSP10 |
| PRRG4.1 | 2.48E-72 | -0.363336491 | 0.195 | 0.308 | 5.99E-68 ductal | PRRG4 |
| ATP6V1G1. | 2.70E-72 | -0.328154719 | 0.315 | 0.437 | 6.50E-68 ductal | ATP6V1G1 |
| ADAM32.1 | 1.00E-71 | -0.424609956 | 0.164 | 0.272 | 2.42E-67 ductal | ADAM32 |
| EIF3K.1 | 1.21E-71 | -0.550467978 | 0.274 | 0.367 | 2.92E-67 ductal | EIF3K |
| GPBP1.1 | 3.55E-71 | -0.392882748 | 0.635 | 0.722 | 8.56E-67 ductal | GPBP1 |
| KAT6B.1 | 5.29E-71 | -0.37503208 | 0.189 | 0.3 | 1.28E-66 ductal | KAT6B |
| CTC-471J1. | 7.00E-71 | 0.67169315 | 0.658 | 0.624 | 1.69E-66 ductal | CTC-471J1.9 |
| ARPC3.1 | 7.82E-71 | 0.360661854 | 0.7 | 0.64 | 1.89E-66 ductal | ARPC3 |
| ARFGEF2.1 | 1.20E-70 | -0.364197836 | 0.299 | 0.419 | 2.90E-66 ductal | ARFGEF2 |
| OSBPL8.1 | 2.18E-70 | -0.376032448 | 0.174 | 0.281 | 5.26E-66 ductal | OSBPL8 |
| KLHL24.1 | 2.24E-70 | -0.316633558 | 0.276 | 0.398 | 5.39E-66 ductal | KLHL24 |
| ATF4.1 | 3.34E-70 | -0.351201588 | 0.323 | 0.442 | 8.05E-66 ductal | ATF4 |
| CNOT4.1 | 9.94E-70 | -0.329247608 | 0.325 | 0.447 | 2.40E-65 ductal | CNOT4 |
| CREBBP.1 | 2.05E-69 | -0.330113735 | 0.23 | 0.345 | 4.95E-65 ductal | CREBBP |
| CDC42BPA. | 3.63E-69 | -0.377587903 | 0.31 | 0.428 | 8.75E-65 ductal | CDC42BPA |
| KCMF1.1 | 4.18E-69 | -0.348701844 | 0.265 | 0.383 | 1.01E-64 ductal | KCMF1 |
| HNRNPM.1 | 8.59E-69 | -0.332364696 | 0.195 | 0.305 | 2.07E-64 ductal | HNRNPM |
| YAP1.1 | 1.09E-68 | -0.337252193 | 0.462 | 0.579 | 2.63E-64 ductal | YAP1 |
| RTCB.1 | 1.74E-68 | 0.386129845 | 0.474 | 0.371 | 4.20E-64 ductal | RTCB |
| UFM1.1 | 2.73E-68 | 0.384581761 | 0.391 | 0.287 | 6.59E-64 ductal | UFM1 |
| ITGB8.1 | 3.82E-68 | 0.440922639 | 0.559 | 0.461 | 9.20E-64 ductal | ITGB8 |
| ZFAS1.1 | 4.18E-68 | 0.267848021 | 0.951 | 0.915 | 1.01E-63 ductal | ZFAS1 |
| SMARCC1.1 | 6.15E-68 | -0.335814414 | 0.222 | 0.334 | 1.48E-63 ductal | SMARCC1 |

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| RP5-857K2 | 6.73E-68 | -0.328233908 | 0.359 | 0.481 | 1.62E-63 ductal | RP5-857K21.4 |
| RPL41.1 | 8.17E-68 | 0.679637482 | 0.938 | 0.882 | 1.97E-63 ductal | RPL41 |
| BACE2.1 | 1.25E-67 | 0.43387141 | 0.377 | 0.275 | 3.03E-63 ductal | BACE2 |
| CFL1.1 | 1.42E-67 | -0.411913007 | 0.251 | 0.359 | 3.42E-63 ductal | CFL1 |
| EEF2.1 | 3.38E-67 | -0.41170816 | 0.333 | 0.458 | 8.15E-63 ductal | EEF2 |
| POLR1D.1 | 3.41E-67 | -0.319631971 | 0.163 | 0.265 | 8.22E-63 ductal | POLR1D |
| TOP1.1 | 6.79E-67 | -0.333556748 | 0.375 | 0.491 | 1.64E-62 ductal | TOP1 |
| DPM1.1 | 7.65E-67 | 0.36594229 | 0.307 | 0.207 | 1.84E-62 ductal | DPM1 |
| TIAM1.1 | 9.15E-67 | 0.549401867 | 0.304 | 0.207 | 2.21E-62 ductal | TIAM1 |
| CD63.1 | 1.28E-66 | -0.394953942 | 0.315 | 0.425 | 3.08E-62 ductal | CD63 |
| UBE2G1.1 | 1.31E-66 | -0.326361973 | 0.191 | 0.299 | 3.17E-62 ductal | UBE2G1 |
| BRD2.1 | 1.94E-66 | -0.338173464 | 0.204 | 0.311 | 4.69E-62 ductal | BRD2 |
| SDC4.1 | 2.14E-66 | 0.612065958 | 0.388 | 0.295 | 5.15E-62 ductal | SDC4 |
| UBR5.1 | 2.45E-66 | -0.322630938 | 0.398 | 0.516 | 5.92E-62 ductal | UBR5 |
| OTUD7B.1 | 2.59E-66 | -0.360230716 | 0.227 | 0.338 | 6.24E-62 ductal | OTUD7B |
| FGD6.1 | 2.72E-66 | -0.371667258 | 0.276 | 0.388 | 6.55E-62 ductal | FGD6 |
| GBE1.1 | 2.78E-66 | 0.512521194 | 0.424 | 0.322 | 6.69E-62 ductal | GBE1 |
| COX6C.1 | 3.26E-66 | -0.689053859 | 0.754 | 0.769 | 7.87E-62 ductal | COX6C |
| USP47.1 | 3.64E-66 | -0.366079634 | 0.35 | 0.466 | 8.78E-62 ductal | USP47 |
| WNK1.1 | 4.52E-66 | -0.31773578 | 0.178 | 0.282 | 1.09E-61 ductal | WNK1 |
| SNRPD1.1 | 5.07E-66 | 0.396256697 | 0.35 | 0.249 | 1.22E-61 ductal | SNRPD1 |
| EIF3L.1 | 5.16E-66 | 0.27701116 | 0.662 | 0.547 | 1.25E-61 ductal | EIF3L |
| KIF13A.1 | 6.49E-66 | -0.437381135 | 0.326 | 0.44 | 1.56E-61 ductal | KIF13A |
| CNKSR3.1 | 7.26E-66 | 0.693051529 | 0.366 | 0.274 | 1.75E-61 ductal | CNKSR3 |
| TMEM150C | 2.56E-65 | 0.357798725 | 0.265 | 0.173 | 6.17E-61 ductal | TMEM150C |
| CCT2.1 | 9.07E-65 | 0.391327021 | 0.366 | 0.267 | 2.19E-60 ductal | CCT2 |
| SLC38A1.1 | 1.28E-64 | -0.348888963 | 0.325 | 0.437 | 3.10E-60 ductal | SLC38A1 |
| PRDX3.1 | 1.71E-64 | -0.345133623 | 0.164 | 0.264 | 4.12E-60 ductal | PRDX3 |
| RPL7.1 | 3.97E-64 | -0.345036864 | 0.946 | 0.835 | 9.57E-60 ductal | RPL7 |
| PDZD8.1 | 5.26E-64 | -0.382455811 | 0.171 | 0.27 | 1.27E-59 ductal | PDZD8 |
| S100A6.1 | 1.22E-63 | -0.828898269 | 0.532 | 0.601 | 2.93E-59 ductal | S100A6 |
| SSR2.1 | 1.59E-63 | 0.285113826 | 0.733 | 0.658 | 3.84E-59 ductal | SSR2 |
| VAV3.1 | 3.74E-63 | -0.390812032 | 0.222 | 0.327 | 9.03E-59 ductal | VAV3 |
| SEP15.1 | 3.81E-63 | 0.370064982 | 0.473 | 0.38 | 9.19E-59 ductal | 15-Sep |
| RBX1.1 | 4.11E-63 | 0.365587557 | 0.497 | 0.406 | 9.92E-59 ductal | RBX1 |
| SARAF.1 | 1.10E-62 | -0.291143604 | 0.282 | 0.398 | 2.64E-58 ductal | SARAF |
| ZSWIM6.1 | 1.24E-62 | -0.367812514 | 0.432 | 0.54 | 2.98E-58 ductal | ZSWIM6 |
| ASH1L.1 | 1.94E-62 | -0.3261521 | 0.484 | 0.593 | 4.67E-58 ductal | ASH1L |
| EIF1.1 | 7.46E-62 | -0.296656839 | 0.408 | 0.526 | 1.80E-57 ductal | EIF1 |
| C8orf59.1 | 1.37E-61 | 0.336580474 | 0.35 | 0.25 | 3.31E-57 ductal | C8orf59 |
| IGF1R.1 | 1.75E-61 | -0.316766544 | 0.433 | 0.548 | 4.22E-57 ductal | IGF1R |
| KYNU.1 | 2.49E-61 | 0.772374108 | 0.301 | 0.208 | 6.01E-57 ductal | KYNU |
| HNRNPH2.1 | 2.50E-61 | 0.332533779 | 0.286 | 0.191 | 6.04E-57 ductal | HNRNPH2 |
| SLC12A2.1 | 2.58E-61 | 0.590868554 | 0.466 | 0.377 | 6.23E-57 ductal | SLC12A2 |
| SEMA6A.1 | 2.60E-61 | 0.570973372 | 0.28 | 0.19 | 6.27E-57 ductal | SEMA6A |
| ZRANB2.1 | 2.91E-61 | 0.359761058 | 0.291 | 0.198 | 7.02E-57 ductal | ZRANB2 |
| ELF2.1 | 3.10E-61 | -0.353852976 | 0.322 | 0.431 | 7.48E-57 ductal | ELF2 |

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| EP300.1 | 3.18E-61 | -0.321342561 | 0.161 | 0.258 | 7.68E-57 ductal | EP300 |
| PAM.1 | 5.20E-61 | 0.376534008 | 0.527 | 0.433 | 1.25E-56 ductal | PAM |
| AHNAK.1 | 1.30E-60 | -0.333898468 | 0.29 | 0.399 | 3.14E-56 ductal | AHNAK |
| RUNX1.1 | 1.34E-60 | -0.282112912 | 0.579 | 0.685 | 3.23E-56 ductal | RUNX1 |
| DNAJC8.1 | 2.44E-60 | 0.337943968 | 0.28 | 0.186 | 5.89E-56 ductal | DNAJC8 |
| SRPK1.1 | 2.94E-60 | 0.407612754 | 0.542 | 0.455 | 7.09E-56 ductal | SRPK1 |
| CD164.1 | 4.37E-60 | -0.340335703 | 0.221 | 0.322 | 1.05E-55 ductal | CD164 |
| USP53.1 | 4.83E-60 | 0.61077 | 0.661 | 0.603 | 1.16E-55 ductal | USP53 |
| LRRFIP1.1 | 6.86E-60 | -0.254577817 | 0.559 | 0.675 | 1.65E-55 ductal | LRRFIP1 |
| CRY1.1 | 8.29E-60 | -0.384597211 | 0.319 | 0.428 | 2.00E-55 ductal | CRY1 |
| RBBP6.1 | 1.51E-59 | -0.307506286 | 0.217 | 0.322 | 3.63E-55 ductal | RBBP6 |
| UBE2K.1 | 1.55E-59 | -0.315285432 | 0.312 | 0.424 | 3.73E-55 ductal | UBE2K |
| FBXO32.1 | 2.09E-59 | 0.57727673 | 0.428 | 0.336 | 5.04E-55 ductal | FBXO32 |
| ZFAND5.1 | 2.28E-59 | -0.318694219 | 0.367 | 0.477 | 5.50E-55 ductal | ZFAND5 |
| PERP.1 | 2.57E-59 | -0.288542672 | 0.385 | 0.498 | 6.19E-55 ductal | PERP |
| RARS.1 | 2.58E-59 | 0.339006279 | 0.28 | 0.189 | 6.23E-55 ductal | RARS |
| C2orf88.1 | 3.29E-59 | 0.396925484 | 0.41 | 0.315 | 7.93E-55 ductal | C2orf88 |
| BCAS3.1 | 3.95E-59 | 0.264959421 | 0.777 | 0.716 | 9.52E-55 ductal | BCAS3 |
| SLTM.1 | 5.57E-59 | -0.303155991 | 0.231 | 0.335 | 1.34E-54 ductal | SLTM |
| HSPH1.1 | 7.38E-59 | -0.426455969 | 0.223 | 0.324 | 1.78E-54 ductal | HSPH1 |
| SREBF2.1 | 7.91E-59 | -0.31370641 | 0.309 | 0.421 | 1.91E-54 ductal | SREBF2 |
| SNRPG.1 | 9.45E-59 | 0.358911885 | 0.568 | 0.49 | 2.28E-54 ductal | SNRPG |
| TGIF1.1 | 1.03E-58 | -0.342257951 | 0.163 | 0.256 | 2.48E-54 ductal | TGIF1 |
| ATP5E.1 | 1.49E-58 | -0.457504292 | 0.502 | 0.59 | 3.59E-54 ductal | ATP5E |
| RNMT.1 | 1.84E-58 | 0.359417608 | 0.393 | 0.293 | 4.43E-54 ductal | RNMT |
| PTPRE.1 | 3.71E-58 | -0.464966454 | 0.208 | 0.302 | 8.95E-54 ductal | PTPRE |
| PPP2CB.1 | 3.77E-58 | -0.294101567 | 0.272 | 0.381 | 9.08E-54 ductal | PPP2CB |
| LIMCH1.1 | 3.87E-58 | -0.415757283 | 0.428 | 0.525 | 9.33E-54 ductal | LIMCH1 |
| MYO1B.1 | 9.41E-58 | -0.405637755 | 0.383 | 0.488 | 2.27E-53 ductal | MYO1B |
| ATXN2.1 | 1.15E-57 | -0.302182501 | 0.269 | 0.376 | 2.77E-53 ductal | ATXN2 |
| CD46.1 | 1.21E-57 | -0.299237454 | 0.333 | 0.446 | 2.92E-53 ductal | CD46 |
| SMCHD1.1 | 1.67E-57 | -0.375203505 | 0.346 | 0.447 | 4.02E-53 ductal | SMCHD1 |
| MAN1A1.1 | 2.60E-57 | -0.316360125 | 0.17 | 0.265 | 6.28E-53 ductal | MAN1A1 |
| AC018890.1 | 2.69E-57 | -0.319757162 | 0.18 | 0.277 | 6.49E-53 ductal | AC018890.6 |
| GRAMD3.1 | 2.71E-57 | -0.351329783 | 0.282 | 0.389 | 6.54E-53 ductal | GRAMD3 |
| DMD.1 | 3.97E-57 | 0.4739159 | 0.318 | 0.228 | 9.56E-53 ductal | DMD |
| CD9.1 | 4.09E-57 | -0.371834893 | 0.324 | 0.427 | 9.85E-53 ductal | CD9 |
| TMEM87A.1 | 4.71E-57 | -0.274517159 | 0.317 | 0.428 | 1.14E-52 ductal | TMEM87A |
| ATP6V1E1.1 | 7.23E-57 | 0.340171141 | 0.353 | 0.26 | 1.74E-52 ductal | ATP6V1E1 |
| ATF3.1 | 1.50E-56 | -0.339961322 | 0.34 | 0.449 | 3.62E-52 ductal | ATF3 |
| CTNNA1.1 | 1.91E-56 | -0.28831696 | 0.475 | 0.578 | 4.59E-52 ductal | CTNNA1 |
| PLCB1.1 | 2.89E-56 | 0.489759923 | 0.28 | 0.192 | 6.98E-52 ductal | PLCB1 |
| DTNB.1 | 3.14E-56 | 0.378518831 | 0.489 | 0.392 | 7.58E-52 ductal | DTNB |
| KLF6.1 | 3.90E-56 | -0.314009513 | 0.507 | 0.611 | 9.41E-52 ductal | KLF6 |
| SRSF4.1 | 4.20E-56 | -0.277307052 | 0.232 | 0.334 | 1.01E-51 ductal | SRSF4 |
| RB1CC1.1 | 6.14E-56 | -0.305585423 | 0.416 | 0.524 | 1.48E-51 ductal | RB1CC1 |
| CSNK1A1.1 | 7.96E-56 | -0.288447235 | 0.595 | 0.693 | 1.92E-51 ductal | CSNK1A1 |

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| RNF11.1 | 9.05E-56 | -0.290266083 | 0.188 | 0.284 | 2.18E-51 ductal | RNF11 |
| GABARAP.1 | 1.11E-55 | 0.359018421 | 0.424 | 0.327 | 2.68E-51 ductal | GABARAP |
| ARHGEF28. | 1.34E-55 | 0.492235725 | 0.332 | 0.241 | 3.24E-51 ductal | ARHGEF28 |
| CCT3.1 | 1.75E-55 | -0.298709587 | 0.298 | 0.4 | 4.23E-51 ductal | CCT3 |
| SLC22A23. | 1.79E-55 | -0.308593537 | 0.189 | 0.286 | 4.31E-51 ductal | SLC22A23 |
| BAZ1A.1 | 2.97E-55 | -0.372713575 | 0.322 | 0.424 | 7.17E-51 ductal | BAZ1A |
| UBE2R2.1 | 3.19E-55 | -0.285745494 | 0.305 | 0.411 | 7.69E-51 ductal | UBE2R2 |
| EIF3I.1 | 3.54E-55 | 0.303688986 | 0.643 | 0.567 | 8.53E-51 ductal | EIF3I |
| PTPRK.1 | 8.31E-55 | -0.293830099 | 0.735 | 0.794 | 2.00E-50 ductal | PTPRK |
| CAB39.1 | 9.01E-55 | -0.343557757 | 0.301 | 0.4 | 2.17E-50 ductal | CAB39 |
| LAMC2.1 | 1.18E-54 | 0.369437658 | 0.324 | 0.23 | 2.84E-50 ductal | LAMC2 |
| TMBIM6.1 | 1.23E-54 | 0.328525313 | 0.873 | 0.854 | 2.96E-50 ductal | TMBIM6 |
| RNF144B.1 | 1.72E-54 | 0.489476468 | 0.343 | 0.256 | 4.14E-50 ductal | RNF144B |
| RAB21.1 | 1.92E-54 | -0.31337929 | 0.203 | 0.301 | 4.62E-50 ductal | RAB21 |
| YY1.1 | 2.15E-54 | -0.274179961 | 0.165 | 0.257 | 5.17E-50 ductal | YY1 |
| POLE2.1 | 2.50E-54 | 0.314658256 | 0.297 | 0.205 | 6.02E-50 ductal | POLE2 |
| MAP2K4.1 | 2.60E-54 | 0.363322234 | 0.498 | 0.412 | 6.27E-50 ductal | MAP2K4 |
| GPBP1L1.1 | 2.72E-54 | -0.292503517 | 0.281 | 0.384 | 6.56E-50 ductal | GPBP1L1 |
| CTTNBP2NL | 3.27E-54 | 0.346776759 | 0.265 | 0.18 | 7.87E-50 ductal | CTTNBP2NL |
| SCGB2A2.1 | 3.32E-54 | -0.506063487 | 0.21 | 0.314 | 8.02E-50 ductal | SCGB2A2 |
| CLIC6.1 | 4.39E-54 | -0.374053549 | 0.164 | 0.252 | 1.06E-49 ductal | CLIC6 |
| SEMA4B.1 | 5.32E-54 | -0.272551279 | 0.167 | 0.26 | 1.28E-49 ductal | SEMA4B |
| ITPR2.1 | 6.63E-54 | -0.3540992 | 0.412 | 0.513 | 1.60E-49 ductal | ITPR2 |
| ANO6.1 | 9.35E-54 | -0.342447654 | 0.463 | 0.556 | 2.25E-49 ductal | ANO6 |
| CIR1.1 | 1.33E-53 | 0.327803467 | 0.314 | 0.224 | 3.20E-49 ductal | CIR1 |
| NAV2.1 | 1.74E-53 | 0.44988989 | 0.473 | 0.383 | 4.20E-49 ductal | NAV2 |
| MAN2A1.1 | 5.95E-53 | -0.291929364 | 0.258 | 0.359 | 1.44E-48 ductal | MAN2A1 |
| PDK3.1 | 7.56E-53 | 0.454648192 | 0.282 | 0.198 | 1.82E-48 ductal | PDK3 |
| MAP4K4.1 | 1.02E-52 | 0.429673366 | 0.289 | 0.205 | 2.47E-48 ductal | MAP4K4 |
| TBC1D3P1- | 1.18E-52 | 0.436448065 | 0.638 | 0.56 | 2.85E-48 ductal | TBC1D3P1-DHX40P1 |
| PIP5K1A.1 | 1.31E-52 | -0.294625731 | 0.242 | 0.341 | 3.15E-48 ductal | PIP5K1A |
| RALGAPA1. | 1.41E-52 | -0.334701928 | 0.247 | 0.342 | 3.39E-48 ductal | RALGAPA1 |
| CXCR4.1 | 2.07E-52 | 0.399549607 | 0.272 | 0.187 | 5.00E-48 ductal | CXCR4 |
| CTBP2.1 | 2.76E-52 | -0.264724044 | 0.28 | 0.386 | 6.65E-48 ductal | CTBP2 |
| RNF10.1 | 3.35E-52 | -0.283929868 | 0.171 | 0.26 | 8.07E-48 ductal | RNF10 |
| ZBTB16.1 | 4.34E-52 | -0.318670367 | 0.216 | 0.314 | 1.05E-47 ductal | ZBTB16 |
| PTPN14.1 | 4.44E-52 | 0.462102745 | 0.356 | 0.271 | 1.07E-47 ductal | PTPN14 |
| YBX3.1 | 5.27E-52 | -0.281849781 | 0.227 | 0.324 | 1.27E-47 ductal | YBX3 |
| CREBRF.1 | 6.71E-52 | -0.272659336 | 0.207 | 0.302 | 1.62E-47 ductal | CREBRF |
| AC090498. | 1.29E-51 | 0.33552784 | 0.363 | 0.275 | 3.11E-47 ductal | AC090498.1 |
| CYCS.1 | 1.34E-51 | 0.332060535 | 0.569 | 0.493 | 3.23E-47 ductal | CYCS |
| ATP5J.1 | 2.98E-51 | 0.298744467 | 0.551 | 0.47 | 7.19E-47 ductal | ATP5J |
| RAB7A.1 | 3.49E-51 | -0.277165542 | 0.39 | 0.491 | 8.41E-47 ductal | RAB7A |
| CHCHD2.1 | 4.14E-51 | -0.346104827 | 0.201 | 0.291 | 9.97E-47 ductal | CHCHD2 |
| LAMB3.1 | 5.67E-51 | 0.4646258 | 0.294 | 0.209 | 1.37E-46 ductal | LAMB3 |
| SRRM2.1 | 7.84E-51 | -0.266948921 | 0.163 | 0.251 | 1.89E-46 ductal | SRRM2 |
| EEF1B2.1 | 1.92E-50 | -0.641554188 | 0.736 | 0.726 | 4.64E-46 ductal | EEF1B2 |

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| CBLB.1 | 2.98E-50 | -0.312418465 | 0.262 | 0.359 | 7.19E-46 ductal | CBLB |
| RARRES1.1 | 3.20E-50 | 0.453293524 | 0.266 | 0.181 | 7.72E-46 ductal | RARRES1 |
| AKAP13.1 | 4.75E-50 | -0.329719185 | 0.557 | 0.646 | 1.14E-45 ductal | AKAP13 |
| GNG12.1 | 5.68E-50 | -0.30933461 | 0.269 | 0.366 | 1.37E-45 ductal | GNG12 |
| MYO10.1 | 1.25E-49 | -0.329137703 | 0.199 | 0.289 | 3.01E-45 ductal | MYO10 |
| UBE2L3.1 | 2.04E-49 | 0.329044089 | 0.49 | 0.41 | 4.92E-45 ductal | UBE2L3 |
| ARID1B.1 | 2.22E-49 | -0.296933387 | 0.432 | 0.535 | 5.35E-45 ductal | ARID1B |
| GHITM.1 | 3.52E-49 | 0.334659664 | 0.494 | 0.416 | 8.49E-45 ductal | GHITM |
| MAST2.1 | 4.59E-49 | -0.324746735 | 0.171 | 0.258 | 1.11E-44 ductal | MAST2 |
| ASPH.1 | 6.09E-49 | -0.299175248 | 0.228 | 0.321 | 1.47E-44 ductal | ASPH |
| EIF4G3.1 | 7.88E-49 | -0.314135699 | 0.452 | 0.55 | 1.90E-44 ductal | EIF4G3 |
| DIAPH1.1 | 8.09E-49 | -0.276265823 | 0.239 | 0.335 | 1.95E-44 ductal | DIAPH1 |
| CALR.1 | 8.48E-49 | -0.304341632 | 0.173 | 0.261 | 2.05E-44 ductal | CALR |
| ARID1A.1 | 9.10E-49 | -0.269520475 | 0.186 | 0.275 | 2.20E-44 ductal | ARID1A |
| LCOR.1 | 1.21E-48 | -0.330287554 | 0.213 | 0.3 | 2.93E-44 ductal | LCOR |
| EMP1.1 | 1.76E-48 | 0.613970935 | 0.709 | 0.675 | 4.25E-44 ductal | EMP1 |
| ARL1.1 | 6.13E-48 | 0.303928599 | 0.304 | 0.219 | 1.48E-43 ductal | ARL1 |
| ATP5H.1 | 6.19E-48 | 0.278771447 | 0.407 | 0.318 | 1.49E-43 ductal | ATP5H |
| HNRNPC.1 | 6.22E-48 | 0.287189649 | 0.803 | 0.773 | 1.50E-43 ductal | HNRNPC |
| CCT8.1 | 1.57E-47 | 0.343966016 | 0.333 | 0.253 | 3.78E-43 ductal | CCT8 |
| CLIP1.1 | 1.69E-47 | -0.307567124 | 0.34 | 0.438 | 4.07E-43 ductal | CLIP1 |
| BCOR.1 | 1.99E-47 | 0.252453411 | 0.581 | 0.474 | 4.80E-43 ductal | BCOR |
| CLINT1.1 | 2.15E-47 | 0.347825223 | 0.301 | 0.218 | 5.17E-43 ductal | CLINT1 |
| NFAT5.1 | 2.28E-47 | -0.301446279 | 0.572 | 0.664 | 5.51E-43 ductal | NFAT5 |
| OLA1.1 | 3.77E-47 | -0.312406198 | 0.268 | 0.36 | 9.09E-43 ductal | OLA1 |
| SIK3.1 | 4.21E-47 | 0.511055578 | 0.977 | 0.97 | 1.01E-42 ductal | SIK3 |
| CALCOCO2 | 4.46E-47 | 0.328517216 | 0.304 | 0.222 | 1.07E-42 ductal | CALCOCO2 |
| TMEM41B. | 6.37E-47 | -0.269266122 | 0.195 | 0.284 | 1.54E-42 ductal | TMEM41B |
| CHD2.1 | 7.47E-47 | -0.262455812 | 0.483 | 0.589 | 1.80E-42 ductal | CHD2 |
| CYB5A.1 | 2.13E-46 | -0.356672836 | 0.207 | 0.292 | 5.14E-42 ductal | CYB5A |
| ATXN1.1 | 2.39E-46 | -0.297095111 | 0.455 | 0.554 | 5.76E-42 ductal | ATXN1 |
| CYR61.1 | 2.83E-46 | -0.328001609 | 0.211 | 0.308 | 6.82E-42 ductal | CYR61 |
| CAPN8.1 | 3.98E-46 | -0.265820394 | 0.166 | 0.253 | 9.60E-42 ductal | CAPN8 |
| HIST1H2BD | 4.00E-46 | -0.286588045 | 0.243 | 0.337 | 9.64E-42 ductal | HIST1H2BD |
| KMT2E.1 | 4.46E-46 | -0.315545915 | 0.408 | 0.503 | 1.08E-41 ductal | KMT2E |
| PFDN4.1 | 4.87E-46 | 0.294232307 | 0.392 | 0.304 | 1.17E-41 ductal | PFDN4 |
| NDUFV2.1 | 8.60E-46 | -0.28590179 | 0.217 | 0.306 | 2.07E-41 ductal | NDUFV2 |
| THSD4-AS1 | 1.31E-45 | 0.30611415 | 0.508 | 0.43 | 3.15E-41 ductal | THSD4-AS1 |
| PNPLA8.1 | 1.40E-45 | 0.362287384 | 0.332 | 0.249 | 3.38E-41 ductal | PNPLA8 |
| PPM1H.1 | 3.34E-45 | 0.451313773 | 0.363 | 0.286 | 8.06E-41 ductal | PPM1H |
| CWC15.1 | 3.52E-45 | 0.289046914 | 0.339 | 0.254 | 8.48E-41 ductal | CWC15 |
| SF3B6.1 | 4.47E-45 | 0.278539803 | 0.65 | 0.584 | 1.08E-40 ductal | SF3B6 |
| RP11-511B | 5.62E-45 | 0.287720169 | 0.555 | 0.48 | 1.35E-40 ductal | RP11-511B23.2 |
| PAPSS1.1 | 5.65E-45 | 0.385441547 | 0.277 | 0.201 | 1.36E-40 ductal | PAPSS1 |
| FAM185A.1 | 1.22E-44 | 0.315805045 | 0.259 | 0.183 | 2.93E-40 ductal | FAM185A |
| SMC5.1 | 1.77E-44 | 0.384267412 | 0.355 | 0.277 | 4.27E-40 ductal | SMC5 |
| OCLN.1 | 1.92E-44 | -0.2770575 | 0.28 | 0.374 | 4.63E-40 ductal | OCLN |

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| OSMR.1 | 2.18E-44 | 0.336069944 | 0.359 | 0.277 | 5.26E-40 ductal | OSMR |
| NCOR1.1 | 3.80E-44 | -0.2618251 | 0.366 | 0.459 | 9.17E-40 ductal | NCOR1 |
| LAMTOR5.1 | 4.05E-44 | 0.270361724 | 0.63 | 0.563 | 9.78E-40 ductal | LAMTOR5 |
| TTC1.1 | 1.73E-43 | 0.315139147 | 0.323 | 0.244 | 4.17E-39 ductal | TTC1 |
| HLA-C.1 | 2.23E-43 | -0.337330652 | 0.262 | 0.346 | 5.37E-39 ductal | HLA-C |
| NUP153.1 | 2.23E-43 | -0.265996505 | 0.228 | 0.318 | 5.37E-39 ductal | NUP153 |
| TEAD1.1 | 2.45E-43 | -0.278661253 | 0.394 | 0.491 | 5.91E-39 ductal | TEAD1 |
| RBPMS.1 | 3.21E-43 | 0.357114316 | 0.697 | 0.639 | 7.74E-39 ductal | RBPMS |
| ARID4B.1 | 3.32E-43 | -0.283983033 | 0.498 | 0.593 | 7.99E-39 ductal | ARID4B |
| CASC15.1 | 6.54E-43 | -0.580943484 | 0.485 | 0.547 | 1.58E-38 ductal | CASC15 |
| USP25.1 | 1.59E-42 | -0.296751993 | 0.209 | 0.292 | 3.83E-38 ductal | USP25 |
| TNRC6B.1 | 1.78E-42 | -0.266207546 | 0.43 | 0.524 | 4.28E-38 ductal | TNRC6B |
| B4GALT1.1 | 1.80E-42 | -0.252210358 | 0.381 | 0.477 | 4.34E-38 ductal | B4GALT1 |
| ASTN2.1 | 3.64E-42 | -0.302774418 | 0.222 | 0.307 | 8.79E-38 ductal | ASTN2 |
| NEAT1.1 | 4.87E-42 | 0.27713743 | 0.964 | 0.938 | 1.18E-37 ductal | NEAT1 |
| PPP3CA.1 | 5.09E-42 | -0.312091652 | 0.514 | 0.596 | 1.23E-37 ductal | PPP3CA |
| SOS1.1 | 1.56E-41 | -0.2746161 | 0.315 | 0.405 | 3.76E-37 ductal | SOS1 |
| MARCKS.1 | 1.65E-41 | 0.365769703 | 0.4 | 0.322 | 3.99E-37 ductal | MARCKS |
| CCDC6.1 | 2.26E-41 | -0.30086367 | 0.266 | 0.351 | 5.46E-37 ductal | CCDC6 |
| SMAD2.1 | 1.04E-40 | -0.274099557 | 0.253 | 0.337 | 2.50E-36 ductal | SMAD2 |
| CXCL1.1 | 1.60E-40 | -0.826750129 | 0.224 | 0.3 | 3.86E-36 ductal | CXCL1 |
| ANKRD12.1 | 1.68E-40 | -0.254682037 | 0.629 | 0.702 | 4.06E-36 ductal | ANKRD12 |
| OVOS2.1 | 2.06E-40 | 0.432405593 | 0.324 | 0.238 | 4.97E-36 ductal | OVOS2 |
| WWP1.1 | 2.25E-40 | -0.284636007 | 0.262 | 0.344 | 5.42E-36 ductal | WWP1 |
| SCOC.1 | 2.86E-40 | 0.258124411 | 0.291 | 0.213 | 6.89E-36 ductal | SCOC |
| NSRP1.1 | 3.20E-40 | 0.279907825 | 0.257 | 0.184 | 7.73E-36 ductal | NSRP1 |
| CXCL8.1 | 3.86E-40 | 0.868712617 | 0.499 | 0.416 | 9.31E-36 ductal | CXCL8 |
| CLASP2.1 | 4.88E-40 | -0.273200685 | 0.223 | 0.306 | 1.18E-35 ductal | CLASP2 |
| IER3.1 | 1.17E-39 | -0.283325216 | 0.267 | 0.353 | 2.83E-35 ductal | IER3 |
| CAPZA2.1 | 1.39E-39 | 0.292726264 | 0.357 | 0.28 | 3.36E-35 ductal | CAPZA2 |
| GNL3.1 | 1.78E-39 | 0.297840904 | 0.295 | 0.219 | 4.30E-35 ductal | GNL3 |
| COPZ1.1 | 1.88E-39 | 0.259683395 | 0.375 | 0.292 | 4.53E-35 ductal | COPZ1 |
| JUN.1 | 2.73E-39 | -0.301053023 | 0.189 | 0.266 | 6.57E-35 ductal | JUN |
| PCM1.1 | 3.13E-39 | -0.258072852 | 0.209 | 0.29 | 7.56E-35 ductal | PCM1 |
| DPYD.1 | 5.21E-39 | 0.297142955 | 0.569 | 0.492 | 1.26E-34 ductal | DPYD |
| WDFY2.1 | 8.76E-39 | -0.261963912 | 0.216 | 0.298 | 2.11E-34 ductal | WDFY2 |
| MRPL22.1 | 9.39E-39 | 0.279325672 | 0.263 | 0.19 | 2.26E-34 ductal | MRPL22 |
| CDK8.1 | 1.70E-38 | -0.319654541 | 0.195 | 0.271 | 4.10E-34 ductal | CDK8 |
| PELI1.1 | 1.93E-38 | 0.365238139 | 0.377 | 0.302 | 4.65E-34 ductal | PELI1 |
| KDM6A.1 | 2.04E-38 | -0.250534289 | 0.312 | 0.402 | 4.93E-34 ductal | KDM6A |
| LRRFIP2.1 | 2.73E-38 | 0.563876559 | 0.775 | 0.756 | 6.59E-34 ductal | LRRFIP2 |
| MACF1.1 | 4.72E-38 | -0.280333596 | 0.678 | 0.748 | 1.14E-33 ductal | MACF1 |
| TXN.1 | 6.51E-38 | 0.326192722 | 0.697 | 0.664 | 1.57E-33 ductal | TXN |
| EPB41L5.1 | 1.31E-37 | -0.263229608 | 0.246 | 0.329 | 3.16E-33 ductal | EPB41L5 |
| LMNA.1 | 1.86E-37 | -0.264249999 | 0.184 | 0.263 | 4.48E-33 ductal | LMNA |
| TMA7.1 | 2.23E-37 | -0.308481366 | 0.557 | 0.631 | 5.37E-33 ductal | TMA7 |
| STAT3.1 | 2.57E-37 | -0.273013662 | 0.492 | 0.568 | 6.19E-33 ductal | STAT3 |

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| SFRP1.1 | 3.33E-37 | 0.271330429 | 0.272 | 0.199 | 8.03E-33 ductal | SFRP1 |
| ANKRD17.1 | 5.43E-37 | -0.253500126 | 0.456 | 0.542 | 1.31E-32 ductal | ANKRD17 |
| GAREM1.1 | 6.56E-37 | -0.278391206 | 0.271 | 0.352 | 1.58E-32 ductal | GAREM1 |
| TBC1D8.1 | 9.73E-37 | -0.257102421 | 0.376 | 0.464 | 2.35E-32 ductal | TBC1D8 |
| DHRXS.1 | 1.27E-36 | -0.27633184 | 0.228 | 0.309 | 3.05E-32 ductal | DHRXS |
| CLMN.1 | 1.30E-36 | 0.384779269 | 0.571 | 0.512 | 3.13E-32 ductal | CLMN |
| RBMS1.1 | 1.83E-36 | -0.307301629 | 0.296 | 0.376 | 4.41E-32 ductal | RBMS1 |
| NTN4.1 | 9.01E-36 | -0.272032556 | 0.252 | 0.332 | 2.17E-31 ductal | NTN4 |
| ATP5F1.1 | 9.32E-36 | 0.260841886 | 0.422 | 0.346 | 2.25E-31 ductal | ATP5F1 |
| FAM19A2.1 | 1.05E-35 | -0.413235572 | 0.545 | 0.626 | 2.54E-31 ductal | FAM19A2 |
| PBX1.1 | 1.13E-35 | -0.253940805 | 0.215 | 0.294 | 2.72E-31 ductal | PBX1 |
| TMOD3.1 | 1.52E-35 | -0.279685197 | 0.356 | 0.434 | 3.68E-31 ductal | TMOD3 |
| S100A11.1 | 1.83E-35 | 0.330233016 | 0.751 | 0.709 | 4.42E-31 ductal | S100A11 |
| DENND4A.1 | 2.75E-35 | -0.388182565 | 0.556 | 0.619 | 6.62E-31 ductal | DENND4A |
| BTF3.1 | 4.10E-35 | -0.450977285 | 0.907 | 0.878 | 9.89E-31 ductal | BTF3 |
| FMNL2.1 | 6.46E-35 | 0.426506093 | 0.395 | 0.329 | 1.56E-30 ductal | FMNL2 |
| PTGES3.1 | 1.15E-34 | -0.26034502 | 0.199 | 0.272 | 2.76E-30 ductal | PTGES3 |
| TCEAL8.1 | 2.77E-34 | 0.265647044 | 0.278 | 0.209 | 6.68E-30 ductal | TCEAL8 |
| SESTD1.1 | 2.95E-34 | 0.304518118 | 0.53 | 0.465 | 7.12E-30 ductal | SESTD1 |
| NRIP1.1 | 3.07E-34 | -0.273717191 | 0.223 | 0.299 | 7.41E-30 ductal | NRIP1 |
| RNF24.1 | 1.35E-33 | 0.306152292 | 0.377 | 0.307 | 3.26E-29 ductal | RNF24 |
| CHD9.1 | 1.69E-33 | 0.2984741 | 0.445 | 0.378 | 4.06E-29 ductal | CHD9 |
| TMTC2.1 | 1.75E-33 | -0.255035282 | 0.327 | 0.411 | 4.23E-29 ductal | TMTC2 |
| FDFT1.1 | 2.36E-33 | -0.262290527 | 0.268 | 0.344 | 5.69E-29 ductal | FDFT1 |
| SMAD3.1 | 4.17E-33 | -0.314881433 | 0.23 | 0.298 | 1.01E-28 ductal | SMAD3 |
| GPD2.1 | 9.53E-33 | -0.311547071 | 0.287 | 0.36 | 2.30E-28 ductal | GPD2 |
| STK39.1 | 9.67E-33 | -0.388839003 | 0.196 | 0.267 | 2.33E-28 ductal | STK39 |
| MAML3.1 | 1.21E-32 | -0.313901227 | 0.305 | 0.381 | 2.92E-28 ductal | MAML3 |
| FRYL.1 | 1.69E-32 | -0.261671492 | 0.351 | 0.428 | 4.07E-28 ductal | FRYL |
| RAPGEF5.1 | 2.20E-32 | 0.31105566 | 0.385 | 0.312 | 5.30E-28 ductal | RAPGEF5 |
| PSMC6.1 | 2.34E-32 | 0.275365565 | 0.359 | 0.291 | 5.64E-28 ductal | PSMC6 |
| MMADHC.1 | 5.74E-32 | 0.265487469 | 0.351 | 0.284 | 1.38E-27 ductal | MMADHC |
| PIN4.1 | 7.61E-32 | 0.257863758 | 0.311 | 0.243 | 1.84E-27 ductal | PIN4 |
| REL.1 | 1.38E-31 | -0.255724162 | 0.255 | 0.33 | 3.33E-27 ductal | REL |
| SEC11A.1 | 2.34E-31 | 0.250782165 | 0.524 | 0.461 | 5.63E-27 ductal | SEC11A |
| EIF4E2.1 | 4.14E-31 | 0.25400183 | 0.365 | 0.3 | 9.98E-27 ductal | EIF4E2 |
| IRF2.1 | 6.59E-31 | 0.258086817 | 0.274 | 0.209 | 1.59E-26 ductal | IRF2 |
| CX3CL1.1 | 9.76E-31 | -0.262721801 | 0.189 | 0.259 | 2.35E-26 ductal | CX3CL1 |
| SPATS2L.1 | 1.32E-30 | 0.322681896 | 0.279 | 0.216 | 3.19E-26 ductal | SPATS2L |
| NDUFB4.1 | 1.43E-30 | -0.262547702 | 0.386 | 0.467 | 3.44E-26 ductal | NDUFB4 |
| PSTPIP2.1 | 1.59E-30 | 0.362478257 | 0.265 | 0.203 | 3.83E-26 ductal | PSTPIP2 |
| ARHGEF38.1 | 5.28E-30 | -0.288343551 | 0.44 | 0.513 | 1.27E-25 ductal | ARHGEF38 |
| SORBS2.1 | 6.82E-30 | 0.44267285 | 0.423 | 0.356 | 1.64E-25 ductal | SORBS2 |
| DAPK2.1 | 7.57E-30 | 0.281008812 | 0.275 | 0.21 | 1.82E-25 ductal | DAPK2 |
| PRDM2.1 | 1.96E-29 | -0.318579717 | 0.252 | 0.325 | 4.73E-25 ductal | PRDM2 |
| GPRC5A.1 | 2.12E-29 | -0.27820975 | 0.346 | 0.42 | 5.11E-25 ductal | GPRC5A |
| HES1.1 | 2.24E-29 | -0.409825389 | 0.3 | 0.371 | 5.40E-25 ductal | HES1 |

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|------------|----------|--------------|-------|-------|-----------------|-------------|
| PALLD.1 | 3.53E-29 | 0.349049516 | 0.439 | 0.381 | 8.51E-25 ductal | PALLD |
| PSMD11.1 | 8.70E-29 | 0.267004151 | 0.297 | 0.235 | 2.10E-24 ductal | PSMD11 |
| CAPN2.1 | 1.24E-28 | 0.259521803 | 0.335 | 0.27 | 2.98E-24 ductal | CAPN2 |
| PNRC1.1 | 3.44E-28 | 0.279586325 | 0.454 | 0.397 | 8.29E-24 ductal | PNRC1 |
| TJP2.1 | 3.65E-28 | 0.329644375 | 0.358 | 0.301 | 8.79E-24 ductal | TJP2 |
| RPS2.1 | 5.54E-28 | -0.278728476 | 0.231 | 0.303 | 1.34E-23 ductal | RPS2 |
| ABHD18.1 | 9.51E-28 | -0.271354829 | 0.303 | 0.372 | 2.29E-23 ductal | ABHD18 |
| RASA2.1 | 2.73E-27 | 0.336641372 | 0.573 | 0.521 | 6.58E-23 ductal | RASA2 |
| YPEL5.1 | 2.81E-27 | 0.288254474 | 0.436 | 0.38 | 6.76E-23 ductal | YPEL5 |
| RIPK2.1 | 3.78E-27 | 0.362925506 | 0.318 | 0.258 | 9.12E-23 ductal | RIPK2 |
| HNRNPA3. | 3.99E-27 | 0.257383514 | 0.302 | 0.242 | 9.63E-23 ductal | HNRNPA3 |
| CAST.1 | 1.21E-26 | 0.254268522 | 0.546 | 0.494 | 2.93E-22 ductal | CAST |
| TPT1-AS1.1 | 1.83E-26 | 0.27866689 | 0.272 | 0.214 | 4.42E-22 ductal | TPT1-AS1 |
| GLUL.1 | 2.01E-26 | -0.250815655 | 0.331 | 0.407 | 4.84E-22 ductal | GLUL |
| AC016831. | 3.90E-26 | 0.306951453 | 0.296 | 0.236 | 9.40E-22 ductal | AC016831.7 |
| MAP4K5.1 | 4.73E-26 | 0.302383327 | 0.325 | 0.265 | 1.14E-21 ductal | MAP4K5 |
| ARHGEF10. | 1.51E-25 | 0.338956013 | 0.254 | 0.2 | 3.65E-21 ductal | ARHGEF10 |
| SEPP1.1 | 1.53E-25 | -0.262267563 | 0.272 | 0.339 | 3.69E-21 ductal | SEPP1 |
| S100A14.1 | 4.09E-25 | 0.267454518 | 0.754 | 0.724 | 9.86E-21 ductal | S100A14 |
| CD55.1 | 4.50E-25 | 0.281018936 | 0.326 | 0.269 | 1.08E-20 ductal | CD55 |
| PTBP2.1 | 9.05E-25 | 0.265052147 | 0.381 | 0.324 | 2.18E-20 ductal | PTBP2 |
| CMIP.1 | 1.24E-24 | 0.268505439 | 0.303 | 0.246 | 2.99E-20 ductal | CMIP |
| JARID2.1 | 3.11E-24 | -0.378592599 | 0.215 | 0.277 | 7.49E-20 ductal | JARID2 |
| MPZL1.1 | 3.51E-24 | 0.267344084 | 0.41 | 0.355 | 8.46E-20 ductal | MPZL1 |
| RPSA.1 | 5.14E-24 | -0.431356109 | 0.831 | 0.798 | 1.24E-19 ductal | RPSA |
| EXT1.1 | 9.46E-24 | 0.303487422 | 0.531 | 0.478 | 2.28E-19 ductal | EXT1 |
| CRIM1.1 | 1.25E-23 | 0.372928769 | 0.469 | 0.424 | 3.02E-19 ductal | CRIM1 |
| LSAMP.1 | 2.35E-23 | -0.44204311 | 0.449 | 0.487 | 5.67E-19 ductal | LSAMP |
| PDE8A.1 | 6.30E-23 | 0.275173431 | 0.363 | 0.308 | 1.52E-18 ductal | PDE8A |
| CLK1.1 | 4.02E-22 | 0.275417545 | 0.45 | 0.399 | 9.69E-18 ductal | CLK1 |
| KDM7A.1 | 4.64E-21 | 0.253560606 | 0.308 | 0.257 | 1.12E-16 ductal | KDM7A |
| TACSTD2.1 | 7.05E-21 | -0.31891673 | 0.717 | 0.739 | 1.70E-16 ductal | TACSTD2 |
| ATP13A3.1 | 3.57E-19 | 0.286541461 | 0.293 | 0.245 | 8.62E-15 ductal | ATP13A3 |
| RPS27.1 | 4.59E-19 | 1.065799586 | 0.648 | 0.631 | 1.11E-14 ductal | RPS27 |
| ERO1A.1 | 3.66E-18 | 0.355366203 | 0.467 | 0.426 | 8.84E-14 ductal | ERO1A |
| ADAM17.1 | 3.69E-18 | 0.267581125 | 0.41 | 0.368 | 8.90E-14 ductal | ADAM17 |
| HIVEP2.1 | 1.18E-17 | -0.379451804 | 0.429 | 0.465 | 2.85E-13 ductal | HIVEP2 |
| DHFR.1 | 9.13E-15 | 0.262560868 | 0.786 | 0.794 | 2.20E-10 ductal | DHFR |
| DAAM1.1 | 7.74E-13 | 0.299100891 | 0.524 | 0.501 | 1.87E-08 ductal | DAAM1 |
| RP11-37B2 | 2.45E-12 | 0.259501697 | 0.25 | 0.214 | 5.90E-08 ductal | RP11-37B2.1 |
| TNFSF10.1 | 9.84E-12 | 0.395674103 | 0.487 | 0.466 | 2.37E-07 ductal | TNFSF10 |
| FOSB.1 | 1.53E-11 | 0.262509169 | 0.413 | 0.386 | 3.68E-07 ductal | FOSB |
| IFRD1.1 | 2.64E-11 | 0.253683866 | 0.37 | 0.342 | 6.38E-07 ductal | IFRD1 |
| ATP5EP2.1 | 2.93E-11 | -0.265058578 | 0.287 | 0.317 | 7.06E-07 ductal | ATP5EP2 |
| BAIAP2L1.1 | 2.14E-10 | -0.355432154 | 0.953 | 0.911 | 5.17E-06 ductal | BAIAP2L1 |
| DAPK1.1 | 3.37E-10 | 0.364604726 | 0.462 | 0.577 | 8.13E-06 ductal | DAPK1 |
| ADAM9.1 | 4.98E-10 | 0.266710572 | 0.579 | 0.563 | 1.20E-05 ductal | ADAM9 |