**Supplementary Table 1.** Differentially expressed genes between the samples with high or low epithelial to a mesenchymal signature scores

|  |  |  |  |
| --- | --- | --- | --- |
| ENSG\_ID | logFC | t-statistics | P.Value |
| **ENSG00000254041.1** | **3.87674291** | **25.8615386** | **6.07E-16** |
| ENSG00000075884.11 | 1.93654242 | 14.7175437 | 1.23E-11 |
| ENSG00000250969.1 | 3.10245599 | 14.7734749 | 1.15E-11 |
| ENSG00000054803.3 | 4.77454483 | 12.6801136 | 1.51E-10 |
| ENSG00000184347.13 | 3.24596979 | 11.6857864 | 5.82E-10 |
| ENSG00000185761.9 | -2.1695182 | -11.743524 | 5.37E-10 |
| ENSG00000113088.5 | 2.80964336 | 11.240423 | 1.09E-09 |
| ENSG00000255124.1 | 2.8531985 | 11.5883887 | 6.67E-10 |
| ENSG00000141540.9 | 1.30436306 | 10.9043111 | 1.79E-09 |
| ENSG00000173269.12 | 1.43762834 | 10.6058475 | 2.79E-09 |
| ENSG00000122679.7 | 1.58746567 | 10.4086727 | 3.76E-09 |
| ENSG00000111341.8 | 2.77046746 | 10.2081086 | 5.12E-09 |
| ENSG00000137033.10 | 3.32648054 | 10.0599182 | 6.44E-09 |
| ENSG00000104324.14 | 0.87384985 | 10.0433995 | 6.61E-09 |
| ENSG00000163792.6 | 4.44531393 | 10.4851073 | 3.35E-09 |
| ENSG00000163564.13 | 2.27672216 | 10.028709 | 6.76E-09 |
| ENSG00000180828.2 | 2.62290828 | 9.94125322 | 7.76E-09 |
| ENSG00000187955.10 | 3.44533134 | 9.78898816 | 9.88E-09 |
| ENSG00000139155.7 | 2.62982238 | 10.0790503 | 6.25E-09 |
| ENSG00000117643.13 | 1.51455375 | 9.63386535 | 1.27E-08 |
| ENSG00000117091.8 | 2.23036795 | 9.6259042 | 1.28E-08 |
| ENSG00000139193.3 | 2.09832261 | 9.60174482 | 1.33E-08 |
| ENSG00000106809.9 | 4.20939257 | 9.51272945 | 1.54E-08 |
| ENSG00000170989.8 | 1.81289245 | 9.4734178 | 1.64E-08 |
| ENSG00000211647.1 | 4.33515334 | 9.87981328 | 8.55E-09 |
| ENSG00000131477.9 | 1.61979199 | 9.42763107 | 1.77E-08 |
| ENSG00000119699.6 | 2.31172287 | 9.40159077 | 1.85E-08 |
| ENSG00000110448.9 | 2.00775555 | 9.38036122 | 1.91E-08 |
| ENSG00000183722.7 | 2.06130016 | 9.3947862 | 1.87E-08 |
| ENSG00000140092.13 | 2.34948875 | 9.35705016 | 1.99E-08 |
| ENSG00000183918.13 | 2.32597203 | 9.37862348 | 1.92E-08 |
| ENSG00000150048.9 | 1.42812631 | 9.3209202 | 2.11E-08 |
| ENSG00000141338.12 | 3.34526046 | 9.26832257 | 2.30E-08 |
| ENSG00000154721.13 | 1.76993106 | 9.25479741 | 2.35E-08 |
| ENSG00000204136.9 | 2.13500017 | 9.14050291 | 2.85E-08 |
| ENSG00000226403.1 | 2.99334404 | 9.3764237 | 1.93E-08 |
| ENSG00000198121.12 | 1.5166211 | 9.04792317 | 3.32E-08 |
| ENSG00000107562.15 | 3.26098397 | 9.06609034 | 3.22E-08 |
| ENSG00000186517.12 | 1.42315882 | 9.04606716 | 3.33E-08 |
| ENSG00000182162.8 | 2.07564711 | 8.89763662 | 4.29E-08 |
| ENSG00000027075.12 | 1.16390481 | 8.83129358 | 4.80E-08 |
| ENSG00000101265.14 | 1.72849227 | 8.83582879 | 4.76E-08 |
| ENSG00000104814.11 | 1.67477875 | 8.79189845 | 5.13E-08 |
| ENSG00000155962.11 | 1.75764778 | 8.7823503 | 5.22E-08 |
| ENSG00000110848.7 | 2.02967682 | 8.77258273 | 5.30E-08 |
| ENSG00000138061.10 | 2.78583883 | 8.77625721 | 5.27E-08 |
| ENSG00000144649.7 | 2.05789819 | 8.73448931 | 5.66E-08 |
| ENSG00000139187.8 | 1.63571047 | 8.76588272 | 5.37E-08 |
| ENSG00000169744.11 | 1.34876329 | 8.69495606 | 6.06E-08 |
| ENSG00000179144.4 | 2.23269649 | 8.6848172 | 6.17E-08 |
| ENSG00000174175.15 | 2.45102137 | 8.68463356 | 6.17E-08 |
| ENSG00000198771.9 | 1.77045112 | 8.65483795 | 6.50E-08 |
| ENSG00000155849.14 | 1.48732367 | 8.59995101 | 7.15E-08 |
| ENSG00000180769.7 | 1.30829422 | 8.63132894 | 6.77E-08 |
| ENSG00000268027.4 | 2.21388292 | 8.68925758 | 6.12E-08 |
| ENSG00000000971.14 | 1.55247242 | 8.64669131 | 6.59E-08 |
| ENSG00000164946.18 | 2.63329347 | 8.55016226 | 7.79E-08 |
| ENSG00000221818.7 | 2.90864262 | 8.54727247 | 7.83E-08 |
| ENSG00000100626.15 | 2.27940088 | 8.53238981 | 8.04E-08 |
| ENSG00000181804.13 | 1.87637855 | 8.52222216 | 8.18E-08 |
| ENSG00000017427.14 | 4.83987963 | 8.56599161 | 7.58E-08 |
| ENSG00000187513.8 | 1.47201837 | 8.51398792 | 8.30E-08 |
| ENSG00000124203.5 | 2.65424013 | 8.49837262 | 8.53E-08 |
| ENSG00000198851.8 | 1.78830813 | 8.45002041 | 9.28E-08 |
| ENSG00000163519.12 | 2.1912046 | 8.52370147 | 8.16E-08 |
| ENSG00000129596.4 | 1.78666413 | 8.43349846 | 9.56E-08 |
| ENSG00000112936.17 | 4.55221625 | 8.5254971 | 8.14E-08 |
| ENSG00000120156.19 | 1.83697124 | 8.40994345 | 9.96E-08 |
| ENSG00000136160.13 | 2.43506224 | 8.39718102 | 1.02E-07 |
| ENSG00000133574.8 | 1.65434265 | 8.39797755 | 1.02E-07 |
| ENSG00000186265.8 | 2.50822811 | 8.46215925 | 9.09E-08 |
| ENSG00000157554.17 | 1.81202904 | 8.34883221 | 1.11E-07 |
| ENSG00000012211.11 | -1.1720248 | -8.3368081 | 1.13E-07 |
| ENSG00000280339.1 | 2.24921214 | 8.36061922 | 1.09E-07 |
| ENSG00000106511.5 | 2.28791127 | 8.30149686 | 1.21E-07 |
| ENSG00000073861.2 | 1.66102741 | 8.35609421 | 1.10E-07 |
| ENSG00000261371.4 | 1.5329016 | 8.38370304 | 1.04E-07 |
| ENSG00000120833.12 | 1.69598723 | 8.27147127 | 1.27E-07 |
| ENSG00000091972.17 | 1.79836305 | 8.26334318 | 1.29E-07 |
| ENSG00000117090.13 | 1.75707247 | 8.21445594 | 1.41E-07 |
| ENSG00000181896.10 | 0.69549167 | 8.19669723 | 1.45E-07 |
| ENSG00000267272.4 | 1.65988657 | 8.23316738 | 1.36E-07 |
| ENSG00000178562.16 | 2.07166691 | 8.19795564 | 1.45E-07 |
| ENSG00000196616.11 | 5.24104932 | 8.19776718 | 1.45E-07 |
| ENSG00000174059.15 | 1.694658 | 8.23480391 | 1.36E-07 |
| ENSG00000137509.9 | 1.35010841 | 8.24831185 | 1.33E-07 |
| ENSG00000108001.12 | 2.25220775 | 8.18736912 | 1.48E-07 |
| ENSG00000185811.15 | 1.98292313 | 8.17595779 | 1.51E-07 |
| ENSG00000179776.16 | 1.42812476 | 8.1528146 | 1.57E-07 |
| ENSG00000121361.3 | 1.5686634 | 8.10305413 | 1.72E-07 |
| ENSG00000245812.2 | 2.08535852 | 8.23240735 | 1.36E-07 |
| ENSG00000168421.11 | 1.79048965 | 8.04092613 | 1.92E-07 |
| ENSG00000254102.1 | 3.12285078 | 8.34199252 | 1.12E-07 |
| ENSG00000138615.5 | 3.76172552 | 8.0317363 | 1.96E-07 |
| ENSG00000248491.4 | 3.29141899 | 8.19311445 | 1.46E-07 |
| ENSG00000151702.15 | 1.6289424 | 8.01093186 | 2.03E-07 |
| ENSG00000136250.10 | 1.76212573 | 7.98990629 | 2.11E-07 |
| ENSG00000143196.4 | 2.99218163 | 8.00895295 | 2.04E-07 |
| ENSG00000122224.16 | 2.35907955 | 7.96872976 | 2.19E-07 |
| ENSG00000169291.8 | 1.69729497 | 7.95810406 | 2.24E-07 |
| ENSG00000161405.15 | 2.22916116 | 7.95951714 | 2.23E-07 |
| ENSG00000137078.7 | 2.16767602 | 7.94962516 | 2.27E-07 |
| ENSG00000107317.10 | 3.30666361 | 7.99808855 | 2.08E-07 |
| ENSG00000104888.8 | 1.70200767 | 7.96167046 | 2.22E-07 |
| ENSG00000205277.8 | -1.8470164 | -7.9317415 | 2.35E-07 |
| ENSG00000124126.12 | 1.36786743 | 7.96129185 | 2.22E-07 |
| ENSG00000188404.7 | 2.55934876 | 7.91239694 | 2.43E-07 |
| ENSG00000127083.7 | 2.78581241 | 7.89892191 | 2.49E-07 |
| ENSG00000241644.2 | 2.10874337 | 7.92153958 | 2.39E-07 |
| ENSG00000267534.2 | 0.95545139 | 7.88308394 | 2.56E-07 |
| ENSG00000078589.11 | 2.14156551 | 7.88745755 | 2.54E-07 |
| ENSG00000180096.10 | 1.5539527 | 7.86180501 | 2.67E-07 |
| ENSG00000115085.12 | 1.75879282 | 7.84802688 | 2.73E-07 |
| ENSG00000117215.13 | 3.48664645 | 7.8858986 | 2.55E-07 |
| ENSG00000134533.5 | 1.64033303 | 7.84349643 | 2.76E-07 |
| ENSG00000126353.3 | 2.54887877 | 7.82983921 | 2.83E-07 |
| ENSG00000089012.13 | 1.42903802 | 7.83851119 | 2.78E-07 |
| ENSG00000119865.7 | 1.3722536 | 7.8134611 | 2.91E-07 |
| ENSG00000101445.8 | 1.93089095 | 7.79773677 | 3.00E-07 |
| ENSG00000116824.4 | 1.68679228 | 7.78407655 | 3.08E-07 |
| ENSG00000257086.1 | -1.5461716 | -7.8191512 | 2.88E-07 |
| ENSG00000162063.11 | -0.9780081 | -7.769002 | 3.16E-07 |
| ENSG00000072818.10 | 1.51625659 | 7.77385026 | 3.13E-07 |
| ENSG00000275361.1 | 2.8331942 | 7.84929105 | 2.73E-07 |
| ENSG00000064300.7 | 3.26039567 | 7.74715582 | 3.29E-07 |
| ENSG00000133561.14 | 1.94227913 | 7.73014345 | 3.40E-07 |
| ENSG00000132386.9 | 1.92822436 | 7.87979025 | 2.58E-07 |
| ENSG00000272511.1 | 2.26286927 | 7.79016083 | 3.04E-07 |
| ENSG00000237523.1 | -1.837336 | -7.7010457 | 3.59E-07 |
| ENSG00000150672.15 | 2.26696794 | 7.69197106 | 3.65E-07 |
| ENSG00000165124.16 | 2.26002716 | 7.74471935 | 3.31E-07 |
| ENSG00000132554.18 | 2.40666622 | 7.71983159 | 3.46E-07 |
| ENSG00000138356.12 | 2.74316634 | 7.6804054 | 3.73E-07 |
| ENSG00000172215.5 | 1.86490294 | 7.66814273 | 3.81E-07 |
| ENSG00000013725.13 | 1.26357001 | 7.67884 | 3.74E-07 |
| ENSG00000091986.14 | 2.72705141 | 7.84188738 | 2.77E-07 |
| ENSG00000144857.13 | 1.94760127 | 7.71391155 | 3.50E-07 |
| ENSG00000115252.17 | 1.74807123 | 7.6725666 | 3.78E-07 |
| ENSG00000245904.3 | 1.30985855 | 7.73326219 | 3.38E-07 |
| ENSG00000169413.2 | 1.69089386 | 7.66938872 | 3.80E-07 |
| ENSG00000172724.10 | 4.33522162 | 7.63891028 | 4.02E-07 |
| ENSG00000101955.13 | 2.48791375 | 7.63256763 | 4.07E-07 |
| ENSG00000224122.1 | 3.12842366 | 7.70378506 | 3.57E-07 |
| ENSG00000180353.9 | 1.60069122 | 7.65375087 | 3.91E-07 |
| ENSG00000010319.5 | 2.06281728 | 7.59128376 | 4.40E-07 |
| ENSG00000134817.10 | 2.13949784 | 7.62051025 | 4.16E-07 |
| ENSG00000161940.9 | 1.38547149 | 7.57672604 | 4.52E-07 |
| ENSG00000106948.15 | 1.18807955 | 7.61226716 | 4.23E-07 |
| ENSG00000168079.15 | 5.48577381 | 7.55459989 | 4.71E-07 |
| ENSG00000213203.2 | 1.64174228 | 7.53316462 | 4.90E-07 |
| ENSG00000101331.14 | 1.36608611 | 7.51814824 | 5.04E-07 |
| ENSG00000105122.11 | 1.27480698 | 7.52488044 | 4.98E-07 |
| ENSG00000274139.1 | -4.5987304 | -7.585251 | 4.45E-07 |
| ENSG00000144642.19 | 1.42594795 | 7.52219339 | 5.01E-07 |
| ENSG00000276557.1 | 2.28713366 | 7.65979048 | 3.87E-07 |
| ENSG00000161013.15 | -1.0824754 | -7.6116521 | 4.23E-07 |
| ENSG00000232613.5 | 2.81428661 | 7.69598546 | 3.62E-07 |
| ENSG00000179088.13 | 3.19660492 | 7.73668356 | 3.36E-07 |
| ENSG00000125810.9 | 1.65088543 | 7.57951123 | 4.50E-07 |
| ENSG00000174004.5 | 1.33430343 | 7.47422206 | 5.48E-07 |
| ENSG00000170899.9 | 1.07870101 | 7.47902905 | 5.43E-07 |
| ENSG00000248441.5 | 2.24997941 | 7.49751748 | 5.24E-07 |
| ENSG00000138378.16 | 1.68007629 | 7.46045877 | 5.62E-07 |
| ENSG00000126545.12 | 4.03787374 | 7.5114667 | 5.11E-07 |
| ENSG00000251179.1 | -1.4204116 | -7.5048578 | 5.17E-07 |
| ENSG00000166848.5 | 0.60873921 | 7.53912075 | 4.85E-07 |
| ENSG00000132837.13 | 1.65262224 | 7.46802919 | 5.54E-07 |
| ENSG00000079931.13 | 2.0802929 | 7.51625656 | 5.06E-07 |
| ENSG00000132840.8 | 1.70239078 | 7.41405708 | 6.14E-07 |
| ENSG00000164691.15 | 1.55933752 | 7.41166493 | 6.16E-07 |
| ENSG00000162998.4 | 1.7415684 | 7.44126905 | 5.83E-07 |
| ENSG00000162407.8 | 1.36879165 | 7.45419614 | 5.69E-07 |
| ENSG00000120279.6 | 1.64874693 | 7.37265473 | 6.64E-07 |
| ENSG00000244122.2 | -2.6711749 | -7.6253928 | 4.13E-07 |
| ENSG00000240687.1 | 2.29352986 | 7.46086436 | 5.62E-07 |
| ENSG00000135426.13 | 1.66906101 | 7.35387364 | 6.88E-07 |
| ENSG00000198844.9 | 1.73777509 | 7.36736641 | 6.70E-07 |
| ENSG00000164035.8 | 2.2187666 | 7.36376092 | 6.75E-07 |
| ENSG00000102245.6 | 1.87646925 | 7.37716349 | 6.58E-07 |
| ENSG00000106483.10 | 2.30071873 | 7.51195895 | 5.10E-07 |
| ENSG00000251408.1 | 3.12139889 | 7.42758698 | 5.98E-07 |
| ENSG00000147257.12 | 2.46360931 | 7.36735968 | 6.70E-07 |
| ENSG00000261269.1 | 1.48881063 | 7.3394046 | 7.07E-07 |
| ENSG00000009790.13 | 1.81680324 | 7.34106852 | 7.05E-07 |
| ENSG00000247774.5 | 1.34631831 | 7.3366488 | 7.11E-07 |
| ENSG00000225938.1 | 1.38743622 | 7.46437532 | 5.58E-07 |
| ENSG00000111269.2 | 0.71925717 | 7.41587902 | 6.12E-07 |
| ENSG00000250334.4 | 2.81235836 | 7.57634924 | 4.52E-07 |
| ENSG00000186185.12 | -1.7038343 | -7.3161031 | 7.39E-07 |
| ENSG00000278965.1 | 1.8105698 | 7.49256618 | 5.29E-07 |
| ENSG00000177098.7 | 1.87529109 | 7.3179818 | 7.36E-07 |
| ENSG00000064989.11 | 1.91254618 | 7.34446697 | 7.00E-07 |
| ENSG00000153283.11 | 1.56315506 | 7.30736148 | 7.51E-07 |
| ENSG00000114200.8 | 2.29438068 | 7.29703849 | 7.66E-07 |
| ENSG00000277734.3 | 1.67745719 | 7.32783062 | 7.23E-07 |
| ENSG00000266542.1 | -3.1570442 | -7.3645081 | 6.74E-07 |
| ENSG00000228035.1 | 3.72184588 | 7.48644899 | 5.35E-07 |
| ENSG00000176435.6 | 1.27804576 | 7.32019982 | 7.33E-07 |
| ENSG00000211753.3 | 1.67804424 | 7.25759422 | 8.26E-07 |
| ENSG00000120129.5 | 1.85910929 | 7.42625987 | 6.00E-07 |
| ENSG00000019991.14 | 1.84264887 | 7.26227112 | 8.19E-07 |
| ENSG00000095370.18 | 1.43376162 | 7.2652826 | 8.14E-07 |
| ENSG00000274172.1 | 3.55428574 | 7.34076342 | 7.05E-07 |
| ENSG00000258733.4 | 1.36519305 | 7.3071228 | 7.52E-07 |
| ENSG00000211751.6 | 1.53673936 | 7.28623778 | 7.82E-07 |
| ENSG00000126785.11 | 1.40872174 | 7.24137264 | 8.52E-07 |
| ENSG00000166265.10 | 1.80759649 | 7.23027205 | 8.71E-07 |
| ENSG00000211747.3 | 1.67992037 | 7.2351659 | 8.63E-07 |
| ENSG00000134668.11 | -2.0275678 | -7.1900913 | 9.41E-07 |
| ENSG00000126882.11 | 1.36475631 | 7.19798916 | 9.26E-07 |
| ENSG00000111796.3 | 1.75376059 | 7.14950624 | 1.02E-06 |
| ENSG00000109339.17 | 1.63859427 | 7.15628615 | 1.00E-06 |
| ENSG00000154277.11 | 1.79645286 | 7.18829376 | 9.44E-07 |
| ENSG00000171791.11 | 1.76985522 | 7.16204675 | 9.93E-07 |
| ENSG00000120075.5 | -1.6387436 | -7.1438008 | 1.03E-06 |
| ENSG00000253105.4 | 2.80763433 | 7.36495682 | 6.74E-07 |
| ENSG00000162894.10 | 2.445727 | 7.14203067 | 1.03E-06 |
| ENSG00000280265.1 | -2.9518831 | -7.33083 | 7.19E-07 |
| ENSG00000143344.14 | 1.57027698 | 7.16344043 | 9.90E-07 |
| ENSG00000091651.7 | -1.5199813 | -7.1005807 | 1.12E-06 |
| ENSG00000135953.9 | -0.8601466 | -7.1148044 | 1.09E-06 |
| ENSG00000127920.5 | 1.66841888 | 7.13742185 | 1.04E-06 |
| ENSG00000188452.12 | 1.4167678 | 7.08237962 | 1.16E-06 |
| ENSG00000196666.4 | 3.46491157 | 7.18496485 | 9.50E-07 |
| ENSG00000134259.3 | 2.10645473 | 7.08339483 | 1.16E-06 |
| ENSG00000168405.13 | 1.54567638 | 7.06359891 | 1.20E-06 |
| ENSG00000102678.6 | 1.80131644 | 7.04876694 | 1.24E-06 |
| ENSG00000108387.13 | 1.34793461 | 7.04878892 | 1.24E-06 |
| ENSG00000166851.13 | -1.6753281 | -7.0302132 | 1.28E-06 |
| ENSG00000117650.11 | -1.9323205 | -6.9855035 | 1.40E-06 |
| ENSG00000153563.14 | 2.02011968 | 7.00424553 | 1.35E-06 |
| ENSG00000238195.1 | 1.76572418 | 7.02839468 | 1.29E-06 |
| ENSG00000081237.17 | 1.98625486 | 7.04301244 | 1.25E-06 |
| ENSG00000174946.6 | 2.01833806 | 6.92414434 | 1.58E-06 |
| ENSG00000229106.1 | 3.51006069 | 6.99469538 | 1.37E-06 |
| ENSG00000147113.15 | 1.40371821 | 6.9440856 | 1.52E-06 |
| ENSG00000114279.12 | 1.61613026 | 6.89436416 | 1.67E-06 |
| ENSG00000277301.1 | 2.66691498 | 7.07193432 | 1.18E-06 |
| ENSG00000197992.5 | 2.16226147 | 6.92098301 | 1.59E-06 |
| ENSG00000250048.1 | 3.51849606 | 6.90543389 | 1.63E-06 |
| ENSG00000066056.12 | 1.21951653 | 6.92899828 | 1.56E-06 |
| ENSG00000145147.18 | 2.3159805 | 6.91988271 | 1.59E-06 |
| ENSG00000110324.8 | 1.55843707 | 6.92694318 | 1.57E-06 |
| ENSG00000162892.14 | 2.29415771 | 6.85590578 | 1.80E-06 |
| ENSG00000172260.12 | 2.12734515 | 6.89015976 | 1.68E-06 |
| ENSG00000153233.11 | -2.3839836 | -6.8534077 | 1.81E-06 |
| ENSG00000181847.10 | 1.76034246 | 6.85240737 | 1.81E-06 |
| ENSG00000135919.11 | 2.3416145 | 6.93689599 | 1.54E-06 |
| ENSG00000255987.1 | 1.656964 | 6.98049885 | 1.41E-06 |
| ENSG00000121067.16 | 0.55493819 | 6.91968073 | 1.59E-06 |
| ENSG00000091831.20 | 2.1081174 | 6.82694428 | 1.91E-06 |
| ENSG00000174804.3 | 1.7676044 | 6.88691074 | 1.70E-06 |
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