**Table S3.** 96 genes differentially expressed between cervix SF2- low and high cell lines groups by Ranked Product Analysis (pfp <0.01)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene Symbol** | **Computed Rank Product** | **Log2 Fold change (low/high)** | **pfp** | **P.value** |
| **Up-regulated in SF2 low** |
| FAM26F | 122.8195 | 0.1117 | 0 | <0.001 |
| RP1-93H18.6 | 183.3985 | 0.1386 | 0 | <0.001 |
| MGST1 | 206.1733 | 0.1298 | 0 | <0.001 |
| KRT7 | 261.0606 | 0.1417 | 0 | <0.001 |
| ARHGEF5L | 308.3792 | 0.1707 | 0 | <0.001 |
| TDRD9 | 421.3424 | 0.172 | 0 | <0.001 |
| AC018641.6 | 422.4798 | 0.1796 | 0 | <0.001 |
| KYNU | 487.9441 | 0.2325 | 4.00E-04 | <0.001 |
| NEFH | 492.6501 | 0.2652 | 3.00E-04 | <0.001 |
| SYCP2 | 494.0714 | 0.2884 | 3.00E-04 | <0.001 |
| CPS1 | 497.8949 | 0.2239 | 3.00E-04 | <0.001 |
| SPINK6 | 518.0855 | 0.3321 | 2.00E-04 | <0.001 |
| LY6K | 521.2751 | 0.1825 | 2.00E-04 | <0.001 |
| MET | 567.5844 | 0.213 | 4.00E-04 | <0.001 |
| SLC43A3 | 609.1973 | 0.2363 | 4.00E-04 | <0.001 |
| AC092535.2 | 644.2437 | 0.2857 | 6.00E-04 | <0.001 |
| CYR61 | 670.8972 | 0.2616 | 6.00E-04 | <0.001 |
| Z99716.1 | 677.7564 | 0.2833 | 7.00E-04 | <0.001 |
| IL6 | 698.301 | 0.2601 | 8.00E-04 | <0.001 |
| HIST1H3C | 710.7674 | 0.2702 | 8.00E-04 | <0.001 |
| TM4SF1 | 785.3033 | 0.2631 | 0.0019 | <0.001 |
| AL049651.1 | 785.4748 | 0.2643 | 0.0018 | <0.001 |
| AP001527.2 | 789.1416 | 0.2981 | 0.0018 | <0.001 |
| NRIP3 | 793.5524 | 0.333 | 0.0018 | <0.001 |
| CTB-161A2.3 | 794.0201 | 0.2886 | 0.0017 | <0.001 |
| AC016738.4 | 818.5894 | 0.2948 | 0.0023 | <0.001 |
| SNX7 | 846.313 | 0.2475 | 0.0027 | <0.001 |
| GNG11 | 852.1387 | 0.3427 | 0.0027 | <0.001 |
| TNFRSF11B | 857.6568 | 0.2943 | 0.0027 | <0.001 |
| RNU4ATAC | 857.6718 | 0.3331 | 0.0026 | <0.001 |
| IFITM2 | 867.3888 | 0.2199 | 0.0026 | <0.001 |
| TFPI | 879.5428 | 0.3103 | 0.0028 | <0.001 |
| C2orf27A | 880.2852 | 0.3115 | 0.0027 | <0.001 |
| CACNA2D1 | 892.968 | 0.3569 | 0.0029 | <0.001 |
| FSTL1 | 901.4956 | 0.2878 | 0.0029 | <0.001 |
| PRTFDC1 | 912.5095 | 0.33 | 0.0029 | <0.001 |
| AKR1C3 | 914.4482 | 0.3934 | 0.0029 | <0.001 |
| MPV17L | 918.132 | 0.3094 | 0.0029 | <0.001 |
| FAM7A3 | 919.7985 | 0.3075 | 0.0028 | <0.001 |
| TGFB2 | 921.4917 | 0.3006 | 0.0028 | <0.001 |
| ACSL5 | 928.8445 | 0.3026 | 0.0028 | <0.001 |
| SMC1B | 934.0585 | 0.358 | 0.0028 | <0.001 |
| PLK2 | 946.466 | 0.2535 | 0.0029 | <0.001 |
| MT1P2 | 947.3792 | 0.3157 | 0.0029 | <0.001 |
| RP11-124N14.3 | 956.569 | 0.5832 | 0.003 | <0.001 |
| PDE7B | 960.9771 | 0.338 | 0.003 | <0.001 |
| RP11-528L24.2 | 961.0125 | 0.2888 | 0.003 | <0.001 |
| GLIPR1 | 962.6217 | 0.3081 | 0.0029 | <0.001 |
| CDH13 | 966.8346 | 0.3481 | 0.0031 | <0.001 |
| BDNF | 978.9988 | 0.3276 | 0.0032 | <0.001 |
| CYP1B1 | 981.8086 | 0.2842 | 0.0032 | <0.001 |
| RP11-799O21.1 | 982.4896 | 0.3149 | 0.0032 | <0.001 |
| ZNF83 | 991.0393 | 0.3411 | 0.0033 | <0.001 |
| UCHL1 | 1013.7198 | 0.4974 | 0.0036 | <0.001 |
| RP11-893F2.4 | 1026.6411 | 0.321 | 0.0038 | <0.001 |
| NHLRC1 | 1037.4631 | 0.313 | 0.004 | <0.001 |
| PVRL3 | 1051.2449 | 0.3325 | 0.0043 | <0.001 |
| LDHC | 1062.839 | 0.349 | 0.0044 | <0.001 |
| PZP | 1067.1662 | 0.3107 | 0.0044 | <0.001 |
| CFHR1 | 1096.2184 | 0.3451 | 0.0049 | <0.001 |
| ARHGAP29 | 1100.767 | 0.2999 | 0.0049 | <0.001 |
| CLIP4 | 1110.8956 | 0.3099 | 0.005 | <0.001 |
| CPNE8 | 1114.7683 | 0.2843 | 0.0049 | <0.001 |
| EPB41L2 | 1116.0353 | 0.3373 | 0.0049 | <0.001 |
| AC003991.3 | 1118.273 | 0.4628 | 0.0049 | <0.001 |
| ZNF300 | 1118.4048 | 0.4127 | 0.0048 | <0.001 |
| NMU | 1119.1311 | 0.342 | 0.0048 | <0.001 |
| BST2 | 1130.8466 | 0.3453 | 0.005 | <0.001 |
| AP000872.1 | 1132.7197 | 0.3124 | 0.005 | <0.001 |
| CLEC2B | 1137.6162 | 0.4057 | 0.005 | <0.001 |
| XIST | 1138.9864 | 0.4781 | 0.005 | <0.001 |
| THEM4 | 1157.6378 | 0.3142 | 0.0056 | <0.001 |
| RP11-346D6.6 | 1163.5496 | 0.4499 | 0.0058 | <0.001 |
| AL109823.3 | 1174.0561 | 0.3516 | 0.0059 | <0.001 |
| USMG5P1 | 1183.62 | 0.3595 | 0.006 | <0.001 |
| NNMT | 1186.7621 | 0.3162 | 0.0061 | <0.001 |
| ADAMTS1 | 1195.8388 | 0.3554 | 0.0062 | <0.001 |
| CFH | 1235.6956 | 0.3897 | 0.0074 | <0.001 |
| NQO1 | 1243.637 | 0.2765 | 0.0077 | <0.001 |
| AL359711.1 | 1253.8426 | 0.3735 | 0.0079 | <0.001 |
| AF127577.10 | 1255.265 | 0.3427 | 0.0079 | <0.001 |
| SERPINB1 | 1256.5429 | 0.3203 | 0.0079 | <0.001 |
| **Up-regulated in SF2 high** |
| CTC-359D24.3 | 64.2054 | 14.2215 | <0.001 | <0.001 |
| SNORD64 | 267.5412 | 5.9683 | <0.001 | <0.001 |
| SNORD116-20 | 334.4644 | 4.9614 | <0.001 | <0.001 |
| CADM1 | 384.9928 | 5.853 | <0.001 | <0.001 |
| ALDH1A1 | 406.5609 | 5.8991 | <0.001 | <0.001 |
| GJA1 | 615.9878 | 2.6431 | 0.0015 | <0.001 |
| AC011484.3 | 692.5185 | 3.321 | 0.0027 | <0.001 |
| SLC46A3 | 771.387 | 3.0981 | 0.0044 | <0.001 |
| C8orf42 | 784.1089 | 2.7256 | 0.0043 | <0.001 |
| GPX2 | 801.5808 | 3.0952 | 0.0043 | <0.001 |
| GTSF1 | 820.3404 | 4.2127 | 0.0044 | <0.001 |
| FBN2 | 832.2985 | 2.9889 | 0.0042 | <0.001 |
| SNORD116-14 | 883.2069 | 3.0716 | 0.0056 | <0.001 |
| TOX | 946.8076 | 2.9825 | 0.0089 | <0.001 |

Median gene signal, per sample was used to calculate differential expression. Exon array mapping performed in Annmap. Log2 fold change (low/high) indicates the magnitude difference between classes. Pfp indicates percent false positive taking into account false discovery rate correction. P-value is a uncorrected p-value.