**Table S1. Differentially Methylated CpG Sites in AECs Compared to PBMCs.**

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| --- | --- | --- |
| **CpG Site** | **z-score difference (log2)** | **q-value** |
| S100A2\_P1186\_F | -2.03 | <0.001 |
| FRK\_P36\_F | -1.91 | <0.001 |
| TRIM29\_E189\_F | -1.89 | <0.001 |
| DDR1\_P332\_R | -1.83 | <0.001 |
| RARRES1\_P426\_R | -1.78 | <0.001 |
| NBL1\_P24\_F | -1.76 | <0.001 |
| LY6G6E\_P45\_R | -1.56 | <0.001 |
| HOXA5\_E187\_F | -1.46 | <0.001 |
| HOXA5\_P479\_F | -1.45 | <0.001 |
| SERPINB5\_P19\_R | -1.41 | <0.001 |
| NID1\_P677\_F | -1.41 | <0.001 |
| KRT5\_E196\_R | -1.40 | <0.001 |
| LIG3\_P622\_R | -1.40 | <0.001 |
| IL2\_P607\_R | -1.40 | <0.001 |
| SFN\_E118\_F | -1.39 | <0.001 |
| TGFB3\_E58\_R | -1.38 | <0.001 |
| ACVR1\_P983\_F | -1.33 | <0.001 |
| TRIM29\_P135\_F | -1.30 | <0.001 |
| TRIP6\_P1090\_F | -1.30 | <0.001 |
| SNCG\_P53\_F | -1.29 | <0.001 |
| MC2R\_P1025\_F | -1.27 | <0.001 |
| SPDEF\_P6\_R | -1.25 | <0.001 |
| TMPRSS4\_E83\_F | -1.25 | <0.001 |
| NOS3\_P38\_F | -1.24 | <0.001 |
| KLK11\_P103\_R | -1.24 | <0.001 |
| PRSS8\_E134\_R | -1.21 | <0.001 |
| FGF1\_E5\_F | -1.21 | <0.001 |
| MET\_E333\_F | -1.18 | <0.001 |
| SNCG\_E119\_F | -1.13 | <0.001 |
| GLI2\_P295\_F | -1.11 | <0.001 |
| PLAT\_P80\_F | -1.10 | <0.001 |
| CXCL9\_E268\_R | -1.09 | <0.001 |
| PTK6\_E50\_F | -1.09 | <0.001 |
| CTGF\_P693\_R | -1.09 | <0.001 |
| MST1R\_P87\_R | -1.05 | <0.001 |
| APOA1\_P261\_F | -1.04 | <0.001 |
| S100A2\_E36\_R | -1.03 | <0.001 |
| RIPK1\_P868\_F | -1.03 | <0.001 |
| FGF1\_P357\_R | -1.01 | <0.001 |
| RUNX3\_E27\_R | 1.01 | <0.001 |
| TIE1\_E66\_R | 1.05 | <0.001 |
| CRIP1\_P874\_R | 1.14 | <0.001 |
| LTA\_P214\_R | 1.14 | <0.001 |
| TM7SF3\_P1068\_R | 1.16 | <0.001 |
| PPARG\_P693\_F | 1.17 | <0.001 |
| DLC1\_E276\_F | 1.17 | <0.001 |
| MT1A\_P600\_F | 1.19 | <0.001 |
| SLC22A3\_P634\_F | 1.19 | <0.001 |
| PECAM1\_P135\_F | 1.22 | <0.001 |
| ICAM1\_P386\_R | 1.23 | <0.001 |
| ERCC3\_P1210\_R | 1.24 | <0.001 |
| TBX1\_P520\_F | 1.25 | <0.001 |
| PSCA\_E359\_F | 1.27 | <0.001 |
| RUNX3\_P247\_F | 1.27 | <0.001 |
| RUNX3\_P393\_R | 1.30 | <0.001 |
| MPL\_P62\_F | 1.31 | <0.001 |
| S100A4\_P194\_R | 1.33 | <0.001 |
| AIM2\_P624\_F | 1.37 | <0.001 |
| SPI1\_P48\_F | 1.38 | <0.001 |
| CD34\_P339\_R | 1.42 | <0.001 |
| LAT\_E46\_F | 1.44 | <0.001 |
| GP1BB\_E23\_F | 1.47 | <0.001 |
| CD86\_P3\_F | 1.51 | <0.001 |
| IL10\_P348\_F | 1.53 | <0.001 |
| EVI2A\_E420\_F | 1.53 | <0.001 |
| OSM\_P188\_F | 1.56 | <0.001 |
| RARA\_P1076\_R | 1.56 | <0.001 |
| LTB4R\_E64\_R | 1.59 | <0.001 |
| PADI4\_E24\_F | 1.62 | <0.001 |
| OSM\_P34\_F | 1.66 | <0.001 |
| CD34\_P780\_R | 1.68 | <0.001 |
| LMO2\_E148\_F | 1.75 | <0.001 |
| RAB32\_P493\_R | 1.76 | <0.001 |
| LTB4R\_P163\_F | 1.81 | <0.001 |
| CD2\_P68\_F | 2.09 | <0.001 |
| TBX1\_P885\_R | 2.20 | <0.001 |
| TNFSF8\_P184\_F | 2.22 | <0.001 |
| AFF3\_P122\_F | 2.36 | <0.001 |
| TNFSF8\_E258\_R | 2.87 | <0.001 |
| GP1BB\_P278\_R | 3.08 | <0.001 |