**Table S3.** **Differentially Methylated Sites in Healthy AECs Compared to PBMCs.**

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| **CpG Site** | **z-score difference (log2)** | **q-value** |
| TRIM29\_E189\_F | -2.12 | <0.001 |
| S100A2\_P1186\_F | -2.09 | <0.001 |
| FRK\_P36\_F | -2.05 | <0.001 |
| DDR1\_P332\_R | -2.04 | <0.001 |
| NBL1\_P24\_F | -1.76 | <0.001 |
| LIG3\_P622\_R | -1.72 | <0.001 |
| RARRES1\_P426\_R | -1.72 | <0.001 |
| HOXA5\_P479\_F | -1.70 | <0.001 |
| LY6G6E\_P45\_R | -1.63 | 0.001 |
| KLK11\_P103\_R | -1.63 | <0.001 |
| TRIP6\_P1090\_F | -1.61 | <0.001 |
| CTGF\_P693\_R | -1.53 | 0.017 |
| SERPINB5\_P19\_R | -1.48 | <0.001 |
| MC2R\_P1025\_F | -1.44 | <0.001 |
| SFN\_E118\_F | -1.44 | <0.001 |
| HOXA5\_E187\_F | -1.40 | <0.001 |
| GLI2\_P295\_F | -1.38 | <0.001 |
| KRT5\_E196\_R | -1.37 | <0.001 |
| TRIM29\_P135\_F | -1.37 | <0.001 |
| ACVR1\_P983\_F | -1.32 | <0.001 |
| SNCG\_E119\_F | -1.32 | <0.001 |
| IL2\_P607\_R | -1.32 | <0.001 |
| CXCL9\_E268\_R | -1.32 | <0.001 |
| SNCG\_P53\_F | -1.29 | <0.001 |
| NPR2\_P618\_F | -1.26 | <0.001 |
| NID1\_P677\_F | -1.26 | <0.001 |
| HHIP\_P578\_R | -1.25 | <0.001 |
| MET\_E333\_F | -1.25 | <0.001 |
| NOS3\_P38\_F | -1.25 | 0.001 |
| CSF3\_E242\_R | -1.24 | <0.001 |
| SPDEF\_P6\_R | -1.24 | <0.001 |
| LCN2\_P141\_R | -1.20 | <0.001 |
| PRSS8\_E134\_R | -1.20 | <0.001 |
| EPHA2\_P340\_R | -1.19 | <0.001 |
| TMPRSS4\_E83\_F | -1.18 | <0.001 |
| PTK6\_E50\_F | -1.15 | <0.001 |
| TGFB3\_E58\_R | -1.14 | <0.001 |
| GRB7\_E71\_R | -1.13 | <0.001 |
| ZIM3\_P451\_R | -1.10 | <0.001 |
| PLAT\_P80\_F | -1.10 | <0.001 |
| IGFBP5\_P9\_R | -1.10 | <0.001 |
| RIPK1\_P868\_F | -1.10 | <0.001 |
| S100A2\_E36\_R | -1.08 | <0.001 |
| CALCA\_E174\_R | -1.08 | <0.001 |
| NOS2A\_E117\_R | -1.08 | <0.001 |
| MST1R\_P87\_R | -1.07 | <0.001 |
| CARD15\_P302\_R | -1.06 | <0.001 |
| FGF1\_E5\_F | -1.05 | <0.001 |
| FASTK\_P598\_R | -1.05 | <0.001 |
| DSC2\_E90\_F | -1.04 | <0.001 |
| MMP14\_P208\_R | -1.03 | <0.001 |
| ERG\_E28\_F | -1.02 | <0.001 |
| CD82\_P557\_R | -1.02 | <0.001 |
| DLC1\_P695\_F | 1.10 | 0.013 |
| MT1A\_P600\_F | 1.13 | <0.001 |
| MPL\_P62\_F | 1.13 | <0.001 |
| JAK2\_P772\_R | 1.16 | <0.001 |
| ITK\_E166\_R | 1.19 | <0.001 |
| LTA\_P214\_R | 1.19 | <0.001 |
| ERCC3\_P1210\_R | 1.19 | <0.001 |
| TBX1\_P520\_F | 1.21 | <0.001 |
| PECAM1\_P135\_F | 1.24 | <0.001 |
| SPI1\_P48\_F | 1.26 | <0.001 |
| CD34\_P339\_R | 1.29 | <0.001 |
| TM7SF3\_P1068\_R | 1.29 | <0.001 |
| RUNX3\_E27\_R | 1.31 | <0.001 |
| CRIP1\_P874\_R | 1.32 | 0.002 |
| ICAM1\_P386\_R | 1.33 | 0.001 |
| PSCA\_E359\_F | 1.40 | <0.001 |
| S100A4\_P194\_R | 1.40 | <0.001 |
| IL10\_P348\_F | 1.40 | <0.001 |
| DLC1\_E276\_F | 1.42 | <0.001 |
| AIM2\_P624\_F | 1.42 | <0.001 |
| SLC22A3\_P634\_F | 1.47 | 0.002 |
| PADI4\_E24\_F | 1.48 | <0.001 |
| RUNX3\_P393\_R | 1.51 | <0.001 |
| LAT\_E46\_F | 1.51 | <0.001 |
| PPARG\_P693\_F | 1.52 | <0.001 |
| OSM\_P34\_F | 1.52 | <0.001 |
| RARA\_P1076\_R | 1.53 | <0.001 |
| RUNX3\_P247\_F | 1.56 | <0.001 |
| EVI2A\_E420\_F | 1.57 | <0.001 |
| OSM\_P188\_F | 1.58 | <0.001 |
| GP1BB\_E23\_F | 1.60 | <0.001 |
| LTB4R\_E64\_R | 1.60 | <0.001 |
| CD86\_P3\_F | 1.76 | <0.001 |
| CD2\_P68\_F | 1.80 | <0.001 |
| LMO2\_E148\_F | 1.81 | <0.001 |
| RAB32\_P493\_R | 1.82 | <0.001 |
| CD34\_P780\_R | 1.82 | <0.001 |
| LTB4R\_P163\_F | 1.88 | <0.001 |
| TNFSF8\_P184\_F | 1.92 | <0.001 |
| AFF3\_P122\_F | 2.05 | <0.001 |
| TBX1\_P885\_R | 2.51 | <0.001 |
| TNFSF8\_E258\_R | 2.94 | <0.001 |
| GP1BB\_P278\_R | 3.16 | <0.001 |