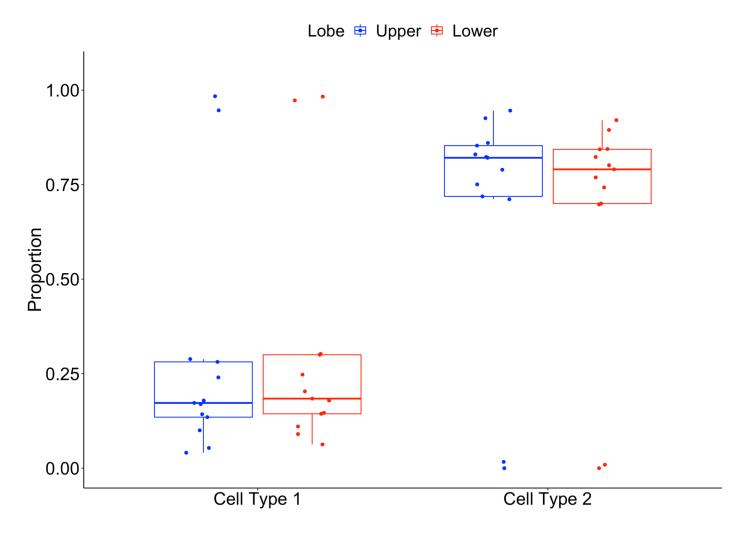
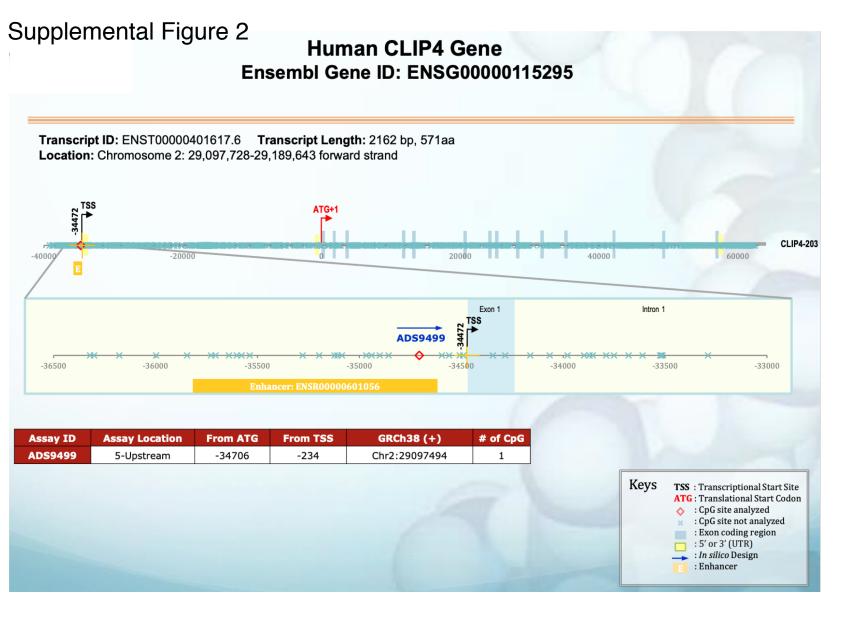
Supplemental Figure 1.



Supplemental Figure 1. Reference-free deconvolution of putative cell types.

RefFreeEWAS algorithm (R package v.2.1, Linux R version 3.5) was applied to 10,000 of the most variable CpGs with 500 bootstraps, 10 iterations, and 9 presumptive cell types (K=2 to 10) to determine putative cell type composition. A K=2 was chosen as this value reduced the column variance of the deviance matrix (n=13 subjects). Upper: right upper lobe BAL cells. Lower: right lower lobe BAL cells.



Supplemental Figure 2. Targeted Next-Gen Bisulfite Sequencing Assay for *CLIP4*.

Illustration of tNGBS assay design for CAP-Gly Domain-Containing Linker Protein Family Member 4 (*CLIP4*), located at position Chr2:29097494, -234 bases upstream from the *CLIP4* transcription start site.