Gene Set 2048 : GOLUB\_ALL\_VS\_AML\_DN **Gene Set Null Distribution Heat Map for Genes in Gene Set** 2.5 Class CAT Gene Set Null Density CFP Observed Gene Set ES value CD33 0.0 2.0 ATP6V0C LGALS3 Running Enrichment Score (RES) LTC4S AZU1 1.5 FAH PPIF -0.5 SQSTM1 P(ES) Zero crossing at 9339 STOM 1.0 Peak at 19669 ZYX **ITGAX** HOXA9 CTSD 0.5 CFD CST3 LYN MCL1 0.0 NFKBIA SRGN LYZ Neg. ES "1" Pos. ES: "0" "1" 5000 15000 20000 25000 -0.5 0.0 0.5 10000 Gene List Index ES = -0.617 NES = -1.82 Nom. p-val= 0.00596 FWER= 0.62 FDR= 0.307 Number of genes: 25691 (in list), 22 (in gene set)