

Figure 1 consists of three vertically stacked panels sharing a common x-axis labeled "Gene List Index" ranging from 0 to 17,187. The top panel shows a blue line representing the number of genes in the set for each index, with a horizontal dashed line at 25. The middle panel shows vertical lines representing the number of genes in the set for each index, with a green vertical line at 9125 and a blue vertical line at 17187. The bottom panel shows a green area graph representing the distribution of gene lists, with labels "clus4" and "NON.clus4".

Gene Set Null Density

Observed Gene Set ES value

P(ES)

Neg. ES "NON.clus4"

Pos. ES: "clus4"

ES

ES = -0.329 NES = -1.06 Nom. p-val = 0.389 FWER = 0.999 FDR = 1

Heatmap showing the expression of 20 genes across 48 samples, grouped into **clus4** and **NON.clus4** clusters. The color scale ranges from -2 (blue) to 2 (red).

Genes (Rows): Class, RBKS, LOC729020, RPIA, RPE, PFKP, PFKL, PRPS1, PRPS2, PGM2, DERA, PGD, TALDO1, H6PD, PGM1, TKT, GPI, PGLS, PFKM, G6PD, FBP1, PRPS1L1, ALDOB, ALDOC, TKTL1, TKTL2.

Samples (Columns): 48 samples, grouped into **clus4** (first 24 samples) and **NON.clus4** (last 24 samples).

Legend: -2 (blue) to 2 (red).