

Figure 1 consists of three vertically stacked panels sharing a common x-axis labeled "Gene List Index" ranging from 0 to 15,000. The top panel is a red line graph showing the number of gene lists (y-axis) versus the number of genes in the set (x-axis). The line starts at a low value, rises sharply to a peak at 2756 genes, and then gradually declines, crossing the zero line at 10412 genes. A horizontal dashed line is drawn across the plot. The middle panel shows vertical black bars representing the number of gene lists for each gene count. The bars are tallest at the peak (2756 genes) and become sparser as the number of genes increases. The bottom panel is a green area plot showing the cumulative distribution of gene lists. The area is shaded green and tapers off as the number of genes increases. Labels "clus3" and "NON.clus3" are placed at the bottom left and right of the area plot, respectively.

A density plot showing the distribution of ES values for the 'clus3' gene set. The x-axis is labeled 'ES' and ranges from -0.6 to 0.6. The y-axis is labeled 'P(ES)' and ranges from 0 to 3. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks around -0.2 and 0.2. A vertical black line at ES = 0.429 represents the 'Observed Gene Set ES value'. The plot is annotated with 'Neg. ES "NON.clus3"' on the left and 'Pos. ES: "clus3"' on the right. Below the x-axis, the following statistics are provided: ES = 0.429, NES = 1.62, Nom. p-val = 0.0339, FWER = 0.905, and FDR = 0.191.

claus3 **NON.claus3**

Heatmap visualization showing gene expression levels (log2 scale) across 40 samples, grouped into two main categories: **claus3** (samples 1-20) and **NON.claus3** (samples 21-40). The color scale ranges from blue (low expression) to red (high expression).

Gene List (Rows):

- Class
- PIK3CG
- PIK3R5
- PIK3CD
- BCL2
- MAPK10
- LEP1
- RAC2
- MYC
- TCF7
- PIK3R3
- AXIN2
- DC
- AKT3
- MSH2
- BIRC5
- TP53
- MSH6
- RALGDS
- TCF7L1
- APPL1
- AKT2
- MAP2K1
- MAPK9
- SMAD4
- CASP3
- APC
- GSK3B
- TGFBF2
- PIK3CA
- PIK3CB
- RAF1
- MSH3
- MLH1
- MAPK1
- ARAF
- RHOA
- TGFB1
- TGFBF1
- SMAD2
- AXIN1
- MAPK3
- SMAD3
- BRAF
- KRAS
- TGFB3
- CASP8
- PIK3R2
- APC2
- RAC1
- CYC5
- BAD
- JUN
- MAPK8
- CTNNA1
- BAX
- PIK3R1
- AKT1
- TGFB2
- FOS
- TCF7L2
- CNN1D
- RAC3

Sample Labels (Columns):

- TCGA_3X_AAWE_01
- TCGA_W5_AA2H_01
- TCGA_W5_AA2R_01
- TCGA_W5_AA2U_01
- TCGA_W5_AA30_01
- TCGA_3X_AA9V_01
- TCGA_3X_AA9A_01
- TCGA_3X_AA9B_01
- TCGA_3X_AA9C_01
- TCGA_4G_AA2O_01
- TCGA_4G_AA2T_01
- TCGA_W5_AA2G_01
- TCGA_W5_AA2J_01
- TCGA_W5_AA2Q_01
- TCGA_W5_AA2Q_01
- TCGA_W5_AA2T_01
- TCGA_W5_AA2W_01
- TCGA_W5_AA2X_01
- TCGA_W5_AA2Z_01
- TCGA_W5_AA31_01
- TCGA_W5_AA33_01
- TCGA_W5_AA34_01
- TCGA_W5_AA36_01
- TCGA_W5_AA38_01
- TCGA_W5_AA39_01
- TCGA_W5_AA40_01
- TCGA_WD_A7RX_01
- TCGA_YR_A95A_01
- TCGA_ZD_A813_01
- TCGA_ZH_A8Y1_01
- TCGA_ZH_A8Y2_01
- TCGA_ZH_A8Y4_01
- TCGA_ZH_A8Y5_01
- TCGA_ZH_A8Y6_01
- TCGA_ZH_A8Y8_01
- TCGA_ZU_A8S4_01