

Figure 1: A plot showing the number of genes in the "clus2" cluster as a function of the gene list index. The x-axis is "Gene List Index" (0 to 18113) and the y-axis is "Number of genes" (0 to 18113). A blue line represents the cluster size, which starts at 18113, decreases to a minimum of 53 at index 14244, and then increases back to 18113. A green shaded area at the bottom represents the "clus2" cluster, and a red shaded area at the top represents the "NON.clus2" cluster. A vertical green dashed line marks the "Zero crossing at 7862", and a vertical red dashed line marks the "Peak at 14244".

A density plot showing the probability density function (PDF) of ES values. The x-axis is labeled 'ES' and ranges from approximately -0.8 to 0.8. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 3.0. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.3 (height ~2.2) and 0.4 (height ~1.6). A vertical black line at ES = -0.617 represents the 'Observed Gene Set ES value'. The area under the red curve to the left of this line is shaded in light blue. Text labels on the x-axis indicate 'Neg. ES "NON.clus2"' for the left side and 'Pos. ES: "clus2"' for the right side. At the bottom, summary statistics are provided: ES = -0.617, NES = -1.58, Nom. p-val = 0.00175, FWER = 0.944, and FDR = 1.

ES = -0.617 NES = -1.58 Nom. p-val = 0.00175 FWER = 0.944 FDR = 1

Heatmap showing the expression of 40 genes across 40 samples, categorized into 'clus2' and 'NON.clus2' groups. The color scale ranges from -2 (blue) to 2 (red).

clus2

NON.clus2

Class

PLA2G4E
HPCD5
PTGES2
PTGS1
ALOX12B
LTG4S
EPHX2
GGT1
GPX4
CYP2U1
AKR1C3
PLA2G2D
GGT5
GPX1
ALOX15B
TBXAS1
PLA2G12A
PTGS2
LTA4H
JMJD7-PLA2G4B
GGT7
PTGIS
CBR1
PLA2G6
CYP2J2
CYP4A11
GGT6
PTGDS
ALOX5
GPX7
GPX3
CBR3
PLA2G1B
CYP4A22
PLA2G4A
CYP2B6
ALOX12
CYP2C9
CYP2E1
GPX2
PLA2G2F
PLA2G2A
ALOX15
PLA2G3
PTGES
PLA2G12B
CYP2C8
CYP4F2
CYP2C18
PLA2G5
CYP4F3
CYP2C19
PLA2G10

TCGA_3X_AA1V_01
TCGA_W5_AA2W_01
TCGA_W5_AA36_01
TCGA_W6_AA0S_01
TCGA_3X_AA1V_01
TCGA_3X_AA1V_01
TCGA_3X_AA1V_01
TCGA_3X_AA1V_01
TCGA_3X_AA1V_01
TCGA_4G_AA2O_01
TCGA_4G_AA2T_01
TCGA_W5_AA2G_01
TCGA_W5_AA2H_01
TCGA_W5_AA2I_01
TCGA_W5_AA2O_01
TCGA_W5_AA2Q_01
TCGA_W5_AA2R_01
TCGA_W5_AA2T_01
TCGA_W5_AA2U_01
TCGA_W5_AA2X_01
TCGA_W5_AA2Z_01
TCGA_W5_AA30_01
TCGA_W5_AA31_01
TCGA_W5_AA33_01
TCGA_W5_AA34_01
TCGA_W5_AA38_01
TCGA_W5_AA39_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_ZH_A8Y8_01
TCGA_ZH_A8Y8_01