

Figure 1: A multi-panel plot showing gene expression data for the 63 genes in the gene set. The top panel is a line plot of the number of genes in the gene set (blue line) versus the Gene List Index (0 to 18113). The line starts at 63, decreases to a minimum of 1 at index 14360, and then increases back to 63. A green dashed vertical line marks the 'Zero crossing at 7260' and a blue dotted vertical line marks the 'Peak at 14360'. The middle panel shows a barcode of vertical lines representing the presence of each gene in the gene set. The bottom panel is a stacked area chart showing the distribution of genes across the gene list index, with a green area representing the 'NON.clus2' cluster and a black area representing the 'clus2' cluster. The x-axis is labeled 'Gene List Index' and 'Number of genes: 18113 (in list), 63 (in gene set)'.

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 2.0. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.35 (height ~1.45) and 0.35 (height ~1.35). A vertical black line at ES = -0.636 represents the 'Observed Gene Set ES value'. The area under the red curve to the left of this line is shaded in light blue. Labels on the x-axis indicate 'Neg. ES "NON.clus2"' for the left side and 'Pos. ES: "clus2"' for the right side. Below the plot, the following statistics are provided: ES = -0.636, NES = -1.62, Nom. p-val = 0.0133, FWER = 0.629, and FDR = 0.226.

clus2 **NON.clus2**

Heatmap visualization showing gene expression patterns across 48 samples, grouped into two clusters: **clus2** and **NON.clus2**. The color scale ranges from -2 (blue) to 2 (red).

Gene List (Rows):

- AQP7
- SORBS1
- SLC27A1
- CPT1B
- FABP6
- NR1H3
- RXRβ
- ILK
- SCD5
- DBI
- CPT1A
- UBC
- FADS2
- RXRA
- SLC27A4
- CPT2
- ACADL
- GK
- PPARG
- PDPK1
- SCP2
- ACSL31
- ACAA1
- ACOX1
- ACOX3
- ACSL4
- OLR1
- ACADM
- PPARA
- SCD
- PPARG
- APOA2
- SLC27A2
- ACSL6
- LPL
- PCK2
- MMP1
- ANGPTL4
- CYP27A1
- CYP4A11
- FABP1
- SLC27A6
- CPT1C
- ME1
- HMGCS2
- FABP3
- PLTP
- PCK1
- PLIN1
- APOC3
- ACSL1
- APOA1
- EHHADH
- FABP4
- APOA5
- RXRβ
- SLC27A5
- CYP4A22
- ACSL5
- CYP8B1
- CYP7A1
- FABP5
- CD36

Sample Groups (Columns):

- clus2:** TCGA_4G_AA20_01, TCGA_4G_AA21_01, TCGA_W5_AA21_01, TCGA_W5_AA2Q_01, TCGA_W5_AA2T_01, TCGA_W5_AA2W_01, TCGA_W5_AA2Z_01, TCGA_W5_AA34_01, TCGA_W5_AA36_01, TCGA_W5_AA38_01, TCGA_ZD_A813_01, TCGA_ZH_A8Y1_01, TCGA_ZH_A8Y2_01, TCGA_ZH_A8Y5_01, TCGA_ZH_A8Y6_01, TCGA_3X_AA9V_01, TCGA_3X_AA9A_01, TCGA_3X_AA9B_01, TCGA_3X_AA9C_01, TCGA_3X_AA9E_01, TCGA_W5_AA2G_01, TCGA_W5_AA2H_01, TCGA_W5_AA2Q_01, TCGA_W5_AA2R_01, TCGA_W5_AA2U_01, TCGA_W5_AA2X_01, TCGA_W5_AA30_01, TCGA_W5_AA31_01, TCGA_W5_AA33_01, TCGA_W5_AA39_01, TCGA_W5_AA05_01, TCGA_WD_A7RX_01, TCGA_YR_A8S4_01, TCGA_ZH_A8Y4_01, TCGA_ZH_A8Y8_01, TCGA_ZU_A8S4_01.
- NON.clus2:** TCGA_W5_AA21_01, TCGA_W5_AA2Q_01, TCGA_W5_AA2T_01, TCGA_W5_AA2W_01, TCGA_W5_AA2Z_01, TCGA_W5_AA34_01, TCGA_W5_AA36_01, TCGA_W5_AA38_01, TCGA_ZD_A813_01, TCGA_ZH_A8Y1_01, TCGA_ZH_A8Y2_01, TCGA_ZH_A8Y5_01, TCGA_ZH_A8Y6_01, TCGA_3X_AA9V_01, TCGA_3X_AA9A_01, TCGA_3X_AA9B_01, TCGA_3X_AA9C_01, TCGA_3X_AA9E_01, TCGA_W5_AA2G_01, TCGA_W5_AA2H_01, TCGA_W5_AA2Q_01, TCGA_W5_AA2R_01, TCGA_W5_AA2U_01, TCGA_W5_AA2X_01, TCGA_W5_AA30_01, TCGA_W5_AA31_01, TCGA_W5_AA33_01, TCGA_W5_AA39_01, TCGA_W5_AA05_01, TCGA_WD_A7RX_01, TCGA_YR_A8S4_01, TCGA_ZH_A8Y4_01, TCGA_ZH_A8Y8_01, TCGA_ZU_A8S4_01.