

Figure 1 displays a multi-panel plot illustrating gene expression data and gene set analysis across a Gene List Index (0 to 15000).

The top panel shows a red line plot representing the log₂(RPKM) expression level. The plot exhibits a peak at index 5117 and a zero crossing at index 8765. A horizontal dashed line indicates the baseline expression level.

The middle panel displays vertical black bars representing gene sets. The bars are clustered around the peak at 5117 and the zero crossing at 8765.

The bottom panel shows a green area plot representing the distribution of genes in the "clus3" and "NON.clus3" sets. The area is shaded green, with the "clus3" region on the left and the "NON.clus3" region on the right. The x-axis is labeled "Gene List Index" and the y-axis is labeled "Number of genes: 17824 (in list), 43 (in gene set)".

The figure is a density plot showing the distribution of ES values for two gene sets. The x-axis is labeled 'ES' and ranges from -0.6 to 0.6. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 3.0. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.2 (P ≈ 1.8) and 0.2 (P ≈ 2.1). A vertical black line at ES = 0.479 represents the 'Observed Gene Set ES value'. The area to the left of this line is labeled 'Neg. ES "NON.clus3"' and the area to the right is labeled 'Pos. ES: "clus3"'. Below the x-axis, the following statistics are provided: ES = 0.479, NES = 1.75, Nom. p-val = 0.0294, FWER = 0.357, and FDR = 0.11.

Heatmap showing the expression of 40 genes across 40 TCGA samples, grouped by cluster (clus3 and NON.clus3). The color scale ranges from -2 (blue) to 2 (red).

clus3

NON.clus3

Class

POLE2
GTF2H2
RFC4
RPA3
ERCC8
LIG1
POL2
POL3
ERCC1
POLD1
RFC5
RFC1
RFC2
POLE4
RFC3
MNAT1
ERCC2
DDB1
XPA
CETN2
CUL4B
CDK7
PCNA
RPA1
RAD23A
CCNH
GTF2H3
RBX1
RPA2
XPC
POLD3
POLE
ERCC4
ERCC3
GTF2H5
DDB2
GTF2H4
ERCC5
CUL4A
GTF2H1
RPA4
ERCC6
POLD4

TCGA_AL_3206_01
TCGA_AL_3205_01
TCGA_AL_3235_01
TCGA_AL_3236_01
TCGA_AL_3237_01
TCGA_AL_3238_01
TCGA_AL_3239_01
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TCGA_AL_3243_01
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