

Figure 1 displays a multi-panel plot showing gene expression data for the "cluser1" cluster. The x-axis represents the Gene List Index, ranging from 0 to 17,824 (in list) and 42 (in gene set).

The top panel shows a blue line plot representing the expression level across the genes. A dashed horizontal line indicates the mean expression level. A green vertical line marks the "Zero crossing at 8790", and a blue vertical line marks the "Peak at 14894".

The middle panel shows vertical black bars representing gene expression patterns across the genes.

The bottom panel shows a green area plot representing the distribution of genes. The area is labeled "clus1" on the left and "NON.clus1" on the right, indicating the distribution of genes within and outside the cluster.

A density plot showing the probability density function (PDF) of ES values. 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 4. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.3 and 0.3. A vertical black line represents the 'Observed Gene Set ES value' at ES = -0.474. 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.clus1"' for the left peak and 'Pos. ES: "clus1"' for the right peak. At the bottom, a summary line provides the following values: ES = -0.474, NES = -1.39, Norm. p-val= 0.0419, FWER= 0.997, FDR= 1.

Heatmap showing the expression of ABC genes across various TCGA samples, categorized by cluster (clus1) and non-cluster (NON.clus1). The color scale ranges from -2 (blue) to 2 (red).

**clus1**

**NON.clus1**

**Class**

**CFTR**

**ABCA13**

**ABC85**

**ABCA1**

**ABCA5**

**ABCG1**

**ABCC5**

**ABCC11**

**ABCB9**

**ABCC1**

**ABCA12**

**ABCA4**

**ABCG2**

**ABCB7**

**ABCB8**

**ABCA7**

**ABCA2**

**ABCD3**

**ABCC8**

**ABCD4**

**ABCB1**

**ABCD2**

**ABCD1**

**ABCC10**

**TAP2**

**ABCB6**

**TAP1**

**ABCC9**

**ABCG4**

**ABCA10**

**ABCC4**

**ABCB10**

**ABCB4**

**ABCC2**

**ABCC3**

**ABCA8**

**ABCA6**

**ABCG5**

**ABCC6**

**ABCA9**

**ABCC8**

TCGA\_KL\_1330\_01

TCGA\_KL\_1337\_01

TCGA\_KL\_1331\_01

TCGA\_AL\_1334\_01

TCGA\_AL\_1332\_01

TCGA\_AL\_1342\_01

TCGA\_AL\_1345\_01

TCGA\_AL\_1346\_01

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