

Figure 1 displays a multi-panel plot illustrating gene expression data for the "clus1" cluster. The x-axis represents the Gene List Index, ranging from 0 to 17,976 (total genes in the list) and 112 (genes in the set).

The top panel shows the log<sub>2</sub>(RPKM) expression level (blue line) across the gene list. A dashed horizontal line indicates the baseline. The plot highlights a "Zero crossing at 9111" (marked by a green vertical line) and a "Peak at 14403" (marked by a blue vertical line).

The middle panel displays a barcode visualization of gene expression, showing vertical lines representing individual genes across the gene list index.

The bottom panel shows the distribution of genes in the "clus1" cluster (green area) and the "NON.clus1" cluster (blue area). The "clus1" cluster shows a high density of genes at the beginning of the list, while the "NON.clus1" cluster shows a high density of genes at the end of the list.

Number of genes: 17976 (in list), 112 (in gene set)

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 -0.25 and 0.25. A vertical black line at ES = -0.527 represents the 'Observed Gene Set ES value'. The area to the left of this line is labeled 'Neg. ES "NON.clus1"' and the area to the right is labeled 'Pos. ES: "clus1"'. Below the plot, the following statistics are provided: ES = -0.527, NES = -1.77, Nom. p-val= 0.00391, FWER= 0.62, FDR= 0.311.

Heatmap visualization showing gene expression profiles across two clusters: **clus1** and **NON.clus1**. The y-axis lists 100 genes, and the x-axis represents individual samples. The color scale ranges from blue (low expression) to red (high expression).

**Gene List (Y-axis):**

- CHUK
- LOC101928
- LOC101929
- LOC101930
- MAP3K1
- MAP3K2
- MAP3K3
- MAP3K4
- MAP3K5
- MAP3K6
- MAP3K7
- MAP3K8
- MAP3K9
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- MAP3K88
- MAP3K89
- MAP3K90
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- MAP3K93
- MAP3K94
- MAP3K95
- MAP3K96
- MAP3K97
- MAP3K98
- MAP3K99
- MAP3K100

**Cluster Labels (X-axis):**

- clus1
- NON.clus1