

Figure 1 displays a multi-panel plot showing gene expression data across a gene list index (0 to 18113).

The top panel shows the  $\log_2(\text{RPKM})$  expression level (blue line) relative to the Gene List Index. A dashed horizontal line indicates the  $\log_2(\text{RPKM}) = 1.5$  threshold. A green vertical line marks the zero crossing at 7260, and a blue vertical line marks the peak at 12067.

The middle panel shows a barcode representation of gene expression, with vertical lines indicating the presence of genes at specific indices.

The bottom panel shows the distribution of genes, with the area under the curve representing the number of genes. The x-axis is labeled "Gene List Index" and "Number of genes: 18113 (in list), 130 (in gene set)". The y-axis is labeled "clus2" and "NON.clus2".

Gene Set Null Density

Observed Gene Set ES value

$P(ES)$

Neg. ES "NON.clus2"

Pos. ES: "clus2"

ES

ES = -0.383 NES = -1.6 Nom. p-val = 0.00391 FWER = 0.676 FDR = 0.18

Heatmap visualization showing gene expression levels across various samples, categorized into 'clus2' and 'NON.clus2' groups. The color scale ranges from -2 (blue) to 2 (red).

**clus2**

**NON.clus2**

Gene list (rows):

- OSG1
- SOX1
- SOX2
- SOX3
- SOX4
- SOX5
- SOX6
- SOX7
- SOX8
- SOX9
- SOX10
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