

Figure 1 displays a multi-panel plot showing gene expression data across a gene list index (0 to 17824).

The top panel shows the $\log_2(\text{RPKM})$ expression level (Y-axis, ranging from 0 to 7) versus the Gene List Index (X-axis, ranging from 0 to 17824). The expression profile is characterized by a peak at 12381 (indicated by a blue vertical dotted line) and a zero crossing at 8453 (indicated by a green vertical dotted line). A horizontal dashed line is drawn at $\log_2(\text{RPKM}) \approx 5.5$.

The middle panel shows a barcode plot representing the presence of genes across the index, with vertical lines indicating gene positions.

The bottom panel shows the proportion of genes in two clusters: "clus2" (green area) and "NON.clus2" (black area). The "clus2" cluster is dominant in the early part of the index (0 to approximately 10,000), while the "NON.clus2" cluster is dominant in the later part (approximately 10,000 to 17824).

Number of genes: 17824 (in list), 132 (in gene set)

A density plot showing the probability density function $P(ES)$ on the y-axis (ranging from 0 to 6) against the ES value on the x-axis (ranging from -0.4 to 0.4). The plot features a red curve representing the 'Gene Set Null Density', which is bimodal with peaks at approximately $ES = -0.15$ and $ES = 0.15$. A vertical black line at $ES = -0.277$ 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 negative values and 'Pos. ES: "clus2"' for positive values. Below the x-axis, the following statistics are provided: $ES = -0.277$, $NES = -1.64$, $Nom. p\text{-val} = 0.0324$, $FWER = 0.613$, and $FDR = 0.428$.

clus2 **NON.clus2**

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

Gene List (Rows):

- CD4
- CD45
- CD45RO
- CD45RO2
- CD45RO3
- CD45RO4
- CD45RO5
- CD45RO6
- CD45RO7
- CD45RO8
- CD45RO9
- CD45RO10
- CD45RO11
- CD45RO12
- CD45RO13
- CD45RO14
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