

Figure 1 displays a multi-panel plot illustrating the distribution of genes in a cluster. The x-axis represents the Gene List Index, ranging from 0 to 15,000. The y-axis represents the density function.

The top panel shows a red line representing the density function, which peaks at 4143 (labeled "Peak at 4143") and crosses the zero line at 10356 (labeled "Zero crossing at 10356"). A horizontal dashed line is present at the baseline.

The middle panel shows a barcode plot with vertical lines representing genes. The lines are colored black and white, indicating different gene sets.

The bottom panel shows a green area plot representing the cumulative distribution of genes. The area is labeled "clus1" on the left and "NON.clus1" on the right.

Number of genes: 18256 (in list), 97 (in gene set)

A density plot showing the distribution 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 0.0 to 3.0. A red curve represents the 'Gene Set Null Density', showing two peaks: one at approximately -0.3 (labeled 'Neg. ES "NON.clus1"') and another at approximately 0.3 (labeled 'Pos. ES: "clus1"'). A vertical black line at ES = 0.565 represents the 'Observed Gene Set ES value'. Below the x-axis, the following statistics are listed: ES = 0.565, NES = 1.66, Nom. p-val= 0, FWER= 0.569, FDR= 0.241.

Heatmap visualization showing gene expression patterns across two clusters: **clus1** and **NON.clus1**. The y-axis lists 100 genes, and the x-axis represents individual samples. The heatmap is divided into two main vertical sections: **clus1** (red) and **NON.clus1** (blue).

Genes listed on the y-axis (from top to bottom):

- Class
- WNT1A
- WNT1A
- WNT1A
- WNT1B
- FZD10
- GNAQ1
- PRKCE
- WNT15
- POMC
- PCNT
- TOP7L1
- PCP
- DCI
- TCF
- ADCV8
- ADCV8
- ADCV8
- MTF
- WNT2R
- PCNA
- WNT2
- WNT3B
- WNT1
- ADCV2
- FZD7
- CAMK2A
- PLCB2
- WNT8E
- CAMK2A
- WNT3B
- LEP
- FZD3
- FZD3
- CREB1
- CALM1
- PLCB1
- CALM1
- WNT2
- PLX
- CSEBP
- PRKCE
- MAPK6
- CAMK2A
- ALC1
- EP300
- WNT1E
- CALM1
- CREB1
- MAPK1
- PCP
- FZD
- CREB1
- CREB1
- FZD9
- FZD9
- PLCB1
- GNAIN
- CALM1
- MAPK
- GNAI
- KRAS
- CALM
- PRKACB
- CREB1
- CREB1
- PLX
- QSOX
- WNT3A
- MAPK
- GNAI
- KRAS
- CREB1
- PLCB1
- WNT3B
- CAMK2B
- CAMK2B