

Figure 1 displays a multi-panel plot showing gene expression data for the 18,361 genes in the list. The x-axis represents the Gene List Index, ranging from 0 to 18,361. The y-axis represents the Number of genes: 18361 (in list), 85 (in gene set).

The top panel shows the average expression level across 18,361 genes (red line). The expression level starts low, rises sharply to a peak at 3631, and then gradually declines, crossing the zero line at 8936. A dashed horizontal line indicates the zero level.

The middle panel shows the number of genes in each cluster (barcode plot). The plot shows a dense cluster of genes, with a peak at 3631. The text "Peak at 3631" and "Zero crossing at 8936" are overlaid on the plot.

The bottom panel shows the number of genes in each cluster (green area plot). The plot shows a sharp peak at 3631, indicating a high concentration of genes in that cluster. The x-axis is labeled "clus1" and "NON.clus1".

A density plot showing the distribution of ES values for the 'NON.clus1' gene set. 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. The plot features a red curve representing the 'Gene Set Null Density' and a vertical black line at ES = 0.501 representing the 'Observed Gene Set ES value'. The distribution is bimodal, with peaks at approximately -0.25 and 0.25. The observed value is located in the right tail of the distribution.

ES = 0.501 NES = 1.67 Nom. p-val= 0.00766 FWER= 0.596 FDR= 0.0592

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, grouped by cluster. The color scale indicates expression levels, ranging from 0 (blue) to 1 (red).

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

- C1orf114
- WNT7A
- NKX1
- SOX17
- WNT11
- SFRP4
- WISP1
- WNT5B
- FZD4
- FZD2
- PCIT2
- SFRP1
- DMDC1
- WNT2
- FZD8
- WNT5A
- WNT3
- FZD1
- PORCN
- PCP4
- WNT9
- WNT10A
- TCF7
- DAM1
- FZD8
- CCND1
- LEF1
- WNT4
- TCF7L1
- FZD7
- WNT1
- B2M
- DVL1
- TLK2
- JRN
- FZD9
- FOSL1
- WNT7B
- CTNNA1
- GSK3B
- ICTL
- CCND2
- EP300
- FBXW2
- CCND3
- CTBP1
- CSNK1D
- WTRC
- WNT5A
- PPP2R1A
- CSNK1G1
- APC
- BCL9
- CNSG2A1
- GSK3A
- LRP5
- CNSG1A1
- LRP6
- DVL2
- CTBP2
- MYC
- FBXW4
- FBXW1
- GAPDH
- SERP
- HPRT1
- PPP2C1
- CACX4
- ACE
- TLK1
- RPL13A
- CTNNBIP1
- MLK
- KREMEN1
- WNT6
- FZD3
- FZD5
- WIF1
- WNT2B
- SLC3A3R1
- GAT1
- FOXN1
- WNT1