

Figure 1: A multi-panel plot showing the distribution of gene lists. The top panel is a red line graph of the number of genes in the list (y-axis, 0.0 to 0.5) versus the Gene List Index (x-axis, 0 to 18361). The line peaks at 4107 (indicated by a red dotted line) and crosses zero at 8936 (indicated by a green dotted line). The middle panel shows a barcode of vertical black lines representing the number of genes in the list. The bottom panel is a green area plot showing the distribution of gene lists, with labels "clus1" and "NON.clus1" indicating different clusters. The x-axis is labeled "Gene List Index" and "Number of genes: 18361 (in list), 97 (in gene set)".

Gene Set Null Density

Observed Gene Set ES value

P(ES)

Neg. ES "NON.clus1"

Pos. ES: "clus1"

ES

ES = 0.542 NES = 1.67 Nom. p-val= 0.00204 FWER= 0.591 FDR= 0.0587

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 vertical sections: **clus1** (left, red header) and **NON.clus1** (right, blue header). The color scale ranges from blue (low expression) to red (high expression).

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

- C12orf4
- CAMK2A
- CAMK2B
- MTF
- WNT7A
- WNT11
- CREBBP1
- WNT3B
- WNT2B
- WNT2
- ADCT1
- ADCT4
- SNAC
- WNT2
- WNT3A
- WNT3
- PLCB4
- FZD3
- FZD8
- WNT6
- WNT6
- PRKACB
- WNT10B
- WNT5
- ADCT7
- CREBBP2
- ADCT9
- CAMK2D
- WNT1
- CREBBP1
- CREB3
- WNT1B
- PLCB2
- GNAT2
- TCF7L2
- FZD7
- TCF7L2
- CALML6
- WNT4
- PRKACB
- FZD8
- CALM1
- WNT6
- CTNND1
- SPCLB
- CAMK2D
- FZD8
- GNAS
- NRAS
- KITLG
- MATN1
- CREBBP1
- CT
- CREBBP1
- MAP2K1
- CALM1
- PLCB2
- GNAT2
- WNT3A
- SNAC
- WNT3A
- PLCB2
- ADCT2
- POMC
- RAF1
- NRAS
- MAPK3
- CALML3
- WNT11
- FZD3
- WNT10B
- CREBBP1
- PRKACB
- WNT1
- PRKACB
- WNT10B
- CALML3