

Figure 1: A multi-panel plot showing the distribution of genes in the "cluser" gene set. The top panel displays the cumulative distribution function (CDF) of the Gene List Index, which peaks at 4643 and crosses zero at 8154. The middle panel shows a barcode plot of the number of genes in each cluster, with a peak at 4643. The bottom panel illustrates the distribution of genes in the "cluser" gene set, with a peak at 4643. The x-axis for all panels is the Gene List Index, ranging from 0 to 18307. The y-axis for the top panel is the cumulative distribution function, ranging from 0 to 1. The y-axis for the middle panel is the number of genes, ranging from 0 to 18307. The y-axis for the bottom panel is the distribution of genes, ranging from 0 to 18307. The bottom panel is labeled "cluser" and "NON.cluser".

ES = 0.647 NES = 1.66 Nom. p-val = 0.0636 FWER = 0.537 FDR = 0.436

Heatmap showing the expression of 100 ribosomal protein genes across two clusters: **clus2** (red) and **NON.clus2** (blue). The genes are listed on the y-axis, and the expression levels are shown as a color scale from red (low) to blue (high).

Genes (Y-axis):

- Class
- RPL21
- RPL17
- RP17
- RPS26
- RP18
- RPL18A
- RPL12
- RPL13A
- RPS27A
- RPS20
- RP15
- RPS12
- RPL7A
- RPL4
- RPS34
- RPL10
- RPL10L
- RPL22
- RPL24
- RPS18
- RP15
- RPL34
- RPS9
- RPL30
- RPS13
- RPL26
- RPL37A
- RP19
- RPL24
- RPS2
- RPL13
- RPL37
- RPS6
- RPS10
- RPS20
- RP12
- RPLP0
- FAU
- RPS2
- RPL11
- RPLP1
- RPS17
- RPS16
- RPL15
- RPS8
- RPL3A
- RPL29
- RPL14
- RPS4X
- RPL32
- RPL6
- RPS29
- RPL37A
- RPS9
- RPLP2
- RPS3A
- RPL10A
- RPL39
- RPS11
- RSL24D1
- RPS27
- RPS16
- RPL35
- RPL3A
- RPL38
- RPS19
- RPL36
- RPL33A
- RPL28
- RPL36A
- RPS4Y1
- RP17
- UBA52
- RPS5
- RPL22L1
- RP120
- RPL41
- RPS24
- RPS27L
- MRPL1