

Figure 1: A plot showing the number of genes in the "clus4" cluster as a function of the gene list index. The x-axis is "Gene List Index" (0 to 17717) and the y-axis is "Number of genes" (0 to 17717). The blue line represents the cluster size, which starts at 17717, decreases to a minimum of 84 at index 10564, and then increases back to 17717. The green shaded area at the bottom represents the "clus4" cluster, which is empty for indices 0 to 10564 and contains 84 genes for indices 10564 to 17717. A red vertical line marks the "Zero crossing at 8789" and a blue vertical line marks the "Peak at 10564".

A density plot showing the distribution of ES values. The x-axis is labeled 'ES' and ranges from -1.0 to 1.0. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 1.5. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks around -0.5 and 0.3. A vertical black line represents the 'Observed Gene Set ES value' at approximately -0.422. The area under the red curve to the left of this line is shaded in light blue. Text labels on the x-axis indicate 'Neg. ES "NON.clus4"' for negative values and 'Pos. ES: "clus4"' for positive values. At the bottom, a summary line provides the following statistics: ES = -0.422, NES = -1.16, Nom. p-val = 0.388, FWER = 1, and FDR = 0.788.

Heatmap visualization showing the distribution of 100 ribosomal proteins across 1000 samples, categorized into two groups: **clus4** (left) and **NON.clus4** (right). The color scale ranges from -2 (blue) to 2 (red).

Proteins (Rows):

- RPS4
- RPS4Y1
- RPS21
- RPS20
- RPS28
- RPL36A
- RPL19
- RPL34
- RPS23
- RPL14
- MRP13
- RPL30
- RPL37
- RPS23
- RPL38
- RPL24
- RPS6
- RPS21
- RPS4X
- RPL8
- RPL36A
- RPL32
- RPL15
- RPL10
- RPL12
- RPL11
- RPL1
- RPL29
- RPS1A
- RPS1A
- RPL33A
- RPL33A
- RPL5
- RPS9
- RPLP1
- RPL7
- FAU
- RPL2
- RPLP2
- RPL6
- RPL27A
- RPS3
- RPL6
- RPS9
- RPL3
- RPS38
- RSL24D1
- RPL23
- RPSA
- RPL36A
- RPS12
- RPS18
- RPS13
- RPS11
- RPL41
- RPL4
- RPL27
- RPL37A
- RPL36
- RPS16
- RPL10A
- RPL31
- RPS16
- RPL7A
- RPS3
- RPS4
- RPS10
- UBA52
- RPS2
- RPS7
- RPS27A
- RPL40
- RPL17
- RPL16A1
- RPS10
- RPL36
- RPL28
- RPS5
- RPS27
- RPL13A
- RPS20
- RPL18A
- RPS20
- RPL21

Samples (Columns):

- T001.DS.WALD.D
- T002.DS.WALD.D
- T003.DS.WALD.D
- T004.DS.WALD.D
- T005.DS.WALD.D
- T006.DS.WALD.D
- T007.DS.WALD.D
- T008.DS.WALD.D
- T009.DS.WALD.D
- T010.DS.WALD.D
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