

Figure 1: A plot showing the distribution of genes in the "clus2" cluster. The x-axis is "Gene List Index" (0 to 18113) and the y-axis is "Number of genes" (0 to 18113). A blue line represents the cumulative distribution function (CDF) of genes in the "clus2" cluster. A green vertical line marks the "Zero crossing at 7260". A blue vertical line marks the "Peak at 14689". The area under the CDF curve is shaded green. The plot is labeled "clus2" and "NON.clus2".

Gene Set Null Density

Observed Gene Set ES value

P(ES)

Neg. ES "NON.clus2"

Pos. ES: "clus2"

ES

ES = -0.729 NES = -1.4 Nom. p-val= 0.0963 FWER= 0.961 FDR= 0.188

Heatmap visualization showing gene expression levels across various samples, categorized by cluster (clust2 and NON.clust2) and Class. The color scale ranges from -2 (blue) to 2 (red).

**Class Legend:**

- clust2 (Red bar)
- NON.clust2 (Blue bar)

**Gene List (Rows):**

- Class
- CGA
- TG
- HLA-G
- HLA-A
- HLA-C
- HLA-B
- HLA-E
- HLA-F
- HLA-DRB1
- HLA-DRB5
- HLA-DQB1
- HLA-DPB1
- CD40
- HLA-DQA2
- HLA-DQA1
- HLA-DMA
- FAS
- HLA-DOA
- HLA-DRA
- HLA-DPA1
- TSHR
- TPO
- CD80
- HLA-DMB
- GZMB
- CD86
- CTLA4
- PRF1
- FASLG
- CD28
- IL2
- HLA-DOB
- CD40LG
- IL10

**Sample List (Columns):**

- TCGA\_4G\_AA20\_01
- TCGA\_4G\_AA21\_01
- TCGA\_W5\_AA21\_01
- TCGA\_W5\_AA2Q\_01
- TCGA\_W5\_AA2T\_01
- TCGA\_W5\_AA2W\_01
- TCGA\_W5\_AA2Z\_01
- TCGA\_W5\_AA34\_01
- TCGA\_W5\_AA36\_01
- TCGA\_W5\_AA38\_01
- TCGA\_ZD\_A813\_01
- TCGA\_ZH\_A811\_01
- TCGA\_ZH\_A812\_01
- TCGA\_ZH\_A815\_01
- TCGA\_ZH\_A816\_01
- TCGA\_3X\_AA19\_01
- TCGA\_3X\_AA1A\_01
- TCGA\_3X\_AA1B\_01
- TCGA\_3X\_AA1C\_01
- TCGA\_3X\_AA1E\_01
- TCGA\_W5\_AA2G\_01
- TCGA\_W5\_AA2H\_01
- TCGA\_W5\_AA2Q\_01
- TCGA\_W5\_AA2R\_01
- TCGA\_W5\_AA2U\_01
- TCGA\_W5\_AA2X\_01
- TCGA\_W5\_AA30\_01
- TCGA\_W5\_AA31\_01
- TCGA\_W5\_AA33\_01
- TCGA\_W5\_AA39\_01
- TCGA\_W6\_AA05\_01
- TCGA\_WD\_A7RX\_01
- TCGA\_YR\_A95A\_01
- TCGA\_ZH\_A814\_01
- TCGA\_ZH\_A818\_01
- TCGA\_ZU\_A854\_01