

Figure 1 displays the distribution of genes in the *clus2* cluster. The plot shows the number of genes in *clus2* (Y-axis) versus the Gene List Index (X-axis, ranging from 0 to 15000). The blue line represents the number of genes in *clus2* for each gene in the list. The green area represents the number of genes in *clus2* for each gene in the set. The plot highlights a peak at 14823 and a zero crossing at 7260.

The figure is a density plot showing the distribution of ES values. The x-axis is labeled 'ES' and ranges from -0.6 to 0.6. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 3.0. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.25 and 0.3. A vertical black line represents the 'Observed Gene Set ES value' at ES = -0.501. The area under the red curve to the left of this line is shaded in light blue. Text labels on the plot include 'Neg. ES "NON.clus2"' for the negative region and 'Pos. ES: "clus2"' for the positive region. Below the x-axis, the following statistics are provided: ES = -0.501, NES = -1.66, Nom. p-val= 0.0175, FWER= 0.529, and FDR= 0.234.

Heatmap showing the expression of 40 genes across 40 samples, grouped into two clusters: clus2 (red) and NON.clus2 (blue). The genes are listed on the y-axis, and the samples are listed on the x-axis. The color scale ranges from -2 (blue) to 2 (red).

**Gene List (Y-axis):**

- Class
- MAPK13
- HRAS
- SP1
- MAP2K3
- MAP2K7
- RIPK1
- MAP3K1
- NFKB1
- RELA
- TNFRSF1A
- DAXX
- MAP2K4
- IKKBK
- MAPK14
- EGFR
- MAP2K6
- RAF1
- PPP2CA
- TNFR
- JUN
- MAPK3
- PRKCA
- NFKBIA
- MAP3K14
- PRKCE
- ETS2
- CHUK
- MAPK1
- PRKCD
- CEBPA
- PRKCQ
- MAP2K1
- BCL2
- PRKCG
- FOS
- MAPK8
- EGF
- ETS1
- FAS
- PRKCH
- HOXA7
- TNFRSF1B
- MAP3K5
- FASLG
- PRKCB

**Sample List (X-axis):**

- TCGA\_4G\_AAZ0\_01
- TCGA\_4G\_AAZT\_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\_AAWA\_01
- TCGA\_3X\_AAWB\_01
- TCGA\_3X\_AAWC\_01
- TCGA\_3X\_AAVE\_01
- TCGA\_W5\_AA2G\_01
- TCGA\_W5\_AA2H\_01
- TCGA\_W5\_AA2O\_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\_A8S4\_01