

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 18646) and the y-axis is 'Number of genes' (0 to 33). A blue line represents the cluster size, which starts at 33, decreases to a minimum of 32 at index 8788 (marked by a green dotted line), and then increases back to 33 at index 12140 (marked by a blue dotted line). A green shaded area at the bottom represents the 'NON.clus4' cluster, which is 0 genes for the 'clus4' cluster and 33 genes for the 'NON.clus4' cluster. The plot is labeled 'Zero crossing at 8788' and 'Peak at 12140'.

A density plot showing the distribution of ES values for two gene sets. 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 to 3. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.25 and 0.25. A vertical black line at ES = -0.467 represents the 'Observed Gene Set ES value'. The area under the red curve to the left of this line is shaded in light blue. Text labels indicate 'Neg. ES "NON.clus4"' for the negative region and 'Pos. ES: "clus4"' for the positive region. Below the x-axis, the following statistics are provided: ES = -0.467, NES = -1.6, Nom. p-val = 0.0279, FWER = 0.931, and FDR = 1.

Heatmap showing the expression of 30 genes across 48 samples, clustered into two groups: clus4 and NON.clus4. The color scale ranges from -2 (blue) to 2 (red).

**Gene List (Rows):**

- Class
- AMPD2
- DCK
- GMPS
- NT5C1A
- DGUOK
- ADA
- NT5E
- GART
- PAICS
- ADK
- GMPR2
- HPRT1
- IMPDH1
- PPAT
- ADSL
- PFAS
- NT5C2
- ATIC
- ADSS
- ADAL
- IMPDH2
- APRT
- NT5C
- PNP
- NT5C1B
- GDA
- CAT
- GPX1
- ADSSL1
- XDH
- AMPD1
- GMPR
- AMPD3

**Sample List (Columns):**

- TGCA\_N5\_A8W8\_01
- TGCA\_N5\_A8R0\_01
- TGCA\_N5\_A8R1\_01
- TGCA\_N5\_A8R2\_01
- TGCA\_N5\_A8R3\_01
- TGCA\_NA\_A8V1\_01
- TGCA\_NA\_A8R1\_01
- TGCA\_NA\_A8R2\_01
- TGCA\_N5\_A8R5\_01
- TGCA\_N5\_A8R6\_01
- TGCA\_N5\_A8R7\_01
- TGCA\_N5\_A8R8\_01
- TGCA\_N5\_A8R9\_01
- TGCA\_N5\_A8R10\_01
- TGCA\_N5\_A8R11\_01
- TGCA\_N5\_A8R12\_01
- TGCA\_N5\_A8R13\_01
- TGCA\_N5\_A8R14\_01
- TGCA\_N5\_A8R15\_01
- TGCA\_N5\_A8R16\_01
- TGCA\_N5\_A8R17\_01
- TGCA\_N5\_A8R18\_01
- TGCA\_N5\_A8R19\_01
- TGCA\_N5\_A8R20\_01
- TGCA\_N5\_A8R21\_01
- TGCA\_N5\_A8R22\_01
- TGCA\_N5\_A8R23\_01
- TGCA\_N5\_A8R24\_01
- TGCA\_N5\_A8R25\_01
- TGCA\_N5\_A8R26\_01
- TGCA\_N5\_A8R27\_01
- TGCA\_N5\_A8R28\_01
- TGCA\_N5\_A8R29\_01
- TGCA\_N5\_A8R30\_01
- TGCA\_N5\_A8R31\_01
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- TGCA\_N5\_A8R98\_01
- TGCA\_N5\_A8R99\_01
- TGCA\_N5\_A8R100\_01