

Figure 1: A plot showing the number of genes in the "clus3" 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 18646). A red line shows the cumulative count of genes in the "clus3" cluster, which peaks at 1411 genes around index 1411 and then decreases. A green line shows the cumulative count of genes not in the "clus3" cluster, which is zero until index 10330 and then increases. A vertical dashed line at index 10330 marks the "Zero crossing at 10330". The area under the red line is shaded green, and the area under the green line is shaded light green. The plot is labeled "clus3" and "NON.clus3".

A density plot showing the distribution of ES values for the 'clus3' cluster. The x-axis is labeled 'ES' and ranges from approximately -0.8 to 0.8, with major ticks at -0.5, 0.0, and 0.5. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 2.0, with major ticks at 0.0, 0.5, 1.0, 1.5, and 2.0. A red curve represents the 'Gene Set Null Density', showing a bimodal distribution with peaks around -0.3 and 0.35. A vertical black line at ES = 0.63 represents the 'Observed Gene Set ES value'. The area under the red curve to the right of this line is shaded in light red. Text labels on the x-axis indicate 'Neg. ES "NON.clus3"' on the left and 'Pos. ES: "clus3"' on the right. At the bottom, a summary line reads: 'ES = 0.63 NES = 1.56 Nom. p-val= 0.0421 FWER= 0.964 FDR= 1'.

Heatmap showing the expression of 40 genes across 40 samples, grouped into **clus3** and **NON.clus3** clusters. The color scale ranges from -2 (blue) to 2 (red).

Genes (Rows):

- Class
- HNF4A
- HNF1B
- HNF1A
- AFP
- FOXA2
- FOXA3
- SLC2A2
- PCK1
- TTR
- PDX1
- F2
- ALB
- ALDOB
- APOA1
- NKX2-1
- ABCC8
- DLK1
- PKLR
- CPT1B
- FOXA1
- KCNJ11
- G6PC
- GCK
- CPT1C
- BDH1
- NF1
- CEBPB
- SP1
- ACADVL
- CREB1
- ACADM
- UCP2
- AKT1
- NR3C1
- IGFBP1
- CPT1A
- HMGCs1
- ALAS1
- TFRC
- CEBPA
- FOXF1
- HADH
- TAT
- CEBPD

Samples (Columns):

- TGGA_NG_A18U.01
- TGGA_NG_A18F.01
- TGGA_NG_A18V.01
- TGGA_NG_A18S.01
- TGGA_NG_A18Z.01
- TGGA_NG_A18T.01
- TGGA_NG_A18X.01
- TGGA_NG_A18W.01
- TGGA_NG_A18Y.01
- TGGA_NG_A18A.01
- TGGA_NG_A18E.01
- TGGA_NG_A18R.01
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