

Figure 1 is a multi-panel plot showing the relationship between Gene List Index and various metrics. The x-axis represents the Gene List Index, ranging from 0 to 17824 (in list) and 64 (in gene set). The y-axis represents a metric, ranging from -1.0 to 0.4.

The top panel displays a red line plot showing a metric (likely correlation) that increases sharply from index 0, reaches a peak at index 3581 (labeled "Peak at 3581"), and then decreases, crossing zero at index 8453 (labeled "Zero crossing at 8453"). A dashed horizontal line is drawn at y=0.

The middle panel shows a series of vertical black lines representing gene sets. The lines are clustered around index 3581 and index 8453, indicating a high density of gene sets at these indices.

The bottom panel shows a green shaded area representing the distribution of gene sets. The area is labeled "clus2" on the left and "NON.clus2" on the right, indicating different clusters. The distribution is skewed towards the left, with a peak around index 3581.

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 to 4. 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 = 0.391 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.clus2"' for the left peak and 'Pos. ES: "clus2"' for the right peak. At the bottom, a summary line reads: 'ES = 0.391 NES = 1.36 Nom. p-val= 0.101 FWER= 0.958 FDR= 1'.

Heatmap visualization showing gene expression profiles across 100 samples, grouped into two clusters: **clus2** and **NON.clus2**. The y-axis lists 60 genes, and the x-axis lists 100 samples. The color scale ranges from -2 (blue) to 2 (red).

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

- Class
- RYR2
- ACSL5
- CAMKK1
- NFKB1E
- TNF
- G6PC2
- PCSK2
- CAMKK2
- CPT1B
- CD36
- PRKAB2
- NFKBIA
- CPT1A
- AKT1
- TNFRSF1B
- MTOR
- NFKB1
- AKT3
- PRKAB1
- POMC
- RELA
- TRADD
- AGRP
- PRKAA2
- SOC33
- TRA2
- IKBK6
- STK11
- MAPK9
- ADIPOR2
- IKBK3
- PPARGC1A
- NFKBIB
- PTEN1
- CHUK
- AKT2
- G6PC
- ACACB
- TNFRSF1A
- ACSL3
- ADIPOR1
- IRS2
- PPARA
- IRS1
- STAT3
- PRKAG1
- ACSL1
- RYR2
- RXRA
- CPT1C
- MAPK9
- SLC2A4
- PRKAG2
- LEP
- PRKAA1
- NPY
- ACSL4
- MAPK10
- LEPR
- JAK2
- PRKCC
- PCSK1
- SLC2A1
- ACSL6

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

- TGCA.NL.S205.01
- TGCA.NL.S206.01
- TGCA.NL.S207.01
- TGCA.NL.S208.01
- TGCA.NL.S209.01
- TGCA.NL.S210.01
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