

Figure 1 displays a plot of the enrichment score (ES) across the gene list index (0 to 18,170). The red line represents the ES, which starts at 0, peaks at 2527, and crosses zero at 8325. The bottom panel shows the distribution of genes in the "clus2" (green) and "NON.clus2" (black) sets. The "clus2" set is concentrated at the beginning of the gene list, while the "NON.clus2" set is distributed throughout. The x-axis is labeled "Gene List Index" and "Number of genes: 18170 (in list), 92 (in gene set)".

A density plot showing the probability density function (PDF) 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 represents the 'Observed Gene Set ES value' at approximately 0.397. 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 negative values and 'Pos. ES: "clus2"' for positive values. At the bottom, summary statistics are provided: ES = 0.397, NES = 1.44, Nom. p-val = 0.0291, FWER = 0.953, and FDR = 0.551.

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Heatmap visualization showing gene expression patterns across two clusters: **clus2** (red header) and **NON.clus2** (blue header). The y-axis lists 100 genes, and the x-axis represents individual samples. The heatmap shows varying levels of expression (red for high, blue for low) for each gene across the samples.

Genes listed on the y-axis (from top to bottom):

- CALM1
- CALM1.5
- PLA2G2B
- GNHRH
- MAPK9
- PLA2G2F
- PLD1
- PLA2G2D
- PRK4
- HBEFG
- EGFR
- PRKCB
- PLA2G2B
- JMJD7
- GNRH1
- PLD1
- CAMK2A
- MAP3K
- PLCB2
- PLD2
- PTK2B
- JUN
- SRC
- CALM1.6
- SGS2
- CAMK2C
- MAPK13
- PRKAC
- MAP2K4
- CAMK2G
- CDC42
- GNA11
- MAPK8
- MAP3K1
- MAPK7
- PLA2G2A
- MAP1
- PRKCD
- HRA5
- MAP2K7
- RAF1
- MAP3K4
- RAF1
- MAPK1
- MAP3K3
- CALM1
- NRAS
- PRKACB
- MAPK11
- ERK1
- PRKAS
- PLCB1
- MAPK14
- MAP2K2
- ITPR2
- MAPK3
- GNHR2
- PLA2G2B
- CACNA1H
- PLA2G2A
- ADCY4
- ADCY4
- ADCY6
- ADCY9
- MAPK9
- CACNA1D
- MMP2
- PLA2G1A
- PLA2G6
- CALM2
- ITPR1
- ADCY1
- ADCY6
- MAP2K3
- TCF21
- CALM3
- GNAS
- CACNA1C
- ADCY8
- MAP2K6
- ORMKD1
- ADCY2
- ADCY8
- COG
- PLA2G10
- PLA2G10
- MAPK12
- PLCB4