

Figure 1 displays the distribution of gene lists, showing the number of genes in the gene set (Y-axis) versus the Gene List Index (X-axis, ranging from 0 to 15,000+).

The top panel shows a red line graph representing the number of genes in the gene set. The curve starts at 0, rises sharply to a peak at index 2145, and then gradually declines, crossing the zero line at index 8609. A dashed horizontal line indicates the zero level.

The middle panel shows a barcode representation of the gene lists, with vertical lines indicating the presence of genes. The distribution is skewed towards the left, with a high density of genes in the early part of the list.

The bottom panel shows a green area chart representing the distribution of gene lists. The area is divided into two regions: "clus3" (left) and "NON.clus3" (right). The "clus3" region is significantly larger, indicating a higher frequency of gene lists in this category.

Key annotations include:

- Peak at 2145
- Zero crossing at 8609
- "clus3"
- "NON.clus3"

Number of genes: 18307 (in list), 88 (in gene set)

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 to 3. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.35 and 0.3. A vertical black line represents the 'Observed Gene Set ES value' at ES = 0.521. The plot is divided into two regions: 'Neg. ES "NON.clus3"' on the left and 'Pos. ES: "clus3"' on the right. Below the x-axis, the following statistics are provided: ES = 0.521, NES = 1.52, Nom. p-val = 0.0188, FWER = 0.849, and FDR = 0.155.

Heatmap visualization showing gene expression profiles across 100 samples. The samples are grouped into two clusters: **clus3** (left, red header) and **NON.clus3** (right, blue header). The genes listed on the y-axis are grouped into several clusters, with some genes highlighted in bold. The color scale represents expression levels, ranging from low (blue) to high (red).

Gene List (Y-axis):

- CLU2
- TNNI7
- CACNG3
- R132
- CACNA1C**
- CACNG2
- CACNA1B
- CACNG8
- ADCF1
- ADRB1
- CACNA1S
- CACNA2D1
- CACNA3D2
- CACNB2
- CACNB1
- ADCF5
- CACNB8
- CACNA1D
- CACNA1C
- CACNB3
- MYL3
- MYH6
- SGCG
- SGCG
- SGCG
- MYL9
- ITGA9
- ITGA2B
- ADCF7
- TNN3
- PRKACB
- TN
- PRKACA
- CACNG7
- CACNG8
- IGF1
- DMD
- ATP2A2
- ADCF8
- SLC6A1
- CACNG9
- TNNC1
- ADCF6
- PRKX
- PRKACA
- GNAS
- ADCF5
- ITGB6
- THM1
- SGCA
- CACNG1
- DES
- ADCF4
- ITGA9
- DAI1
- SGCB
- THM1
- CACNG6
- ITGB7
- EMO
- ACTG1
- TNF
- ITGB6
- ACTB
- THM2
- TGFB3
- ITGB5
- MYBP3
- ITGA7
- ITGA10
- LAMA2
- LMNA
- ITGA3
- ITGB4
- ITGB7
- TGFB2
- TGFB1
- ITGB4
- ITGA11
- ITGA1
- ITGA2
- ITGA5
- ITGA8
- ITGB3
- CACNA1D