

Figure 1 displays a multi-panel plot illustrating the distribution of genes across a gene list index (0 to 17,000).

The top panel shows the number of genes (Y-axis, 0 to 1000) versus the Gene List Index (X-axis, 0 to 17,000). The red line represents the distribution, showing a peak at 4788 (labeled "Peak at 4788") and a zero crossing at 9453 (labeled "Zero crossing at 9453"). A horizontal dashed line indicates the baseline level.

The middle panel shows a barcode representation of the number of genes in each of the 17,000 gene sets, with vertical black lines indicating the presence of genes.

The bottom panel shows the distribution of genes across the gene list index, with the area under the curve representing the number of genes. The distribution is skewed towards the beginning of the index, with a label "clus2" near the start and "NON.clus2" near the end.

Gene List Index

Number of genes: 17346 (in list), 79 (in gene set)

A density plot showing the probability density function (PDF) of ES values. The x-axis is labeled 'ES' and ranges from -0.5 to 0.5. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 3.0. The plot features two curves: a red curve representing the 'Gene Set Null Density' and a black vertical line representing the 'Observed Gene Set ES value'. The red curve is bimodal, with a primary peak at approximately ES = -0.3 (P(ES) ≈ 1.9) and a secondary, lower peak at approximately ES = 0.35 (P(ES) ≈ 1.4). The black vertical line is positioned at ES = 0.541, which is to the right of the secondary peak. The area under the red curve to the right of the observed value is shaded in light blue. Text labels on the x-axis indicate 'Neg. ES "NON.clus2"' for negative values and 'Pos. ES: "clus2"' for positive values. At the bottom of the plot, the following statistics are displayed: ES = 0.541, NES = 1.4, Nom. p-val= 0.103, FWER= 0.903, and FDR= 0.225.

clus2

NON.clus2

Class

RELN

TNR

ITGA11

COL4A6

SY2B

COL4A4

ITGA7

SY2A

LAMA2

ITGB4

LAMB3

ITGA2B

TNC

COL1A1

COL5A1

ITGA5

SDC2

ITGA2

COL3A1

LAMC2

COMP

TNXB

COL1A2

LAMA3

FN1

GPIB

CHAD

THBS4

COL5A2

LAMA1

ITGB8

COL3A1

VWF

LAMB1

COL5A3

COL4A2

THBS2

COL5A3

COL6A3

THBS1

SDC1

GPI

ITGB7

TNN

LAMC3

ITGB8

ITGB8

ITGA3

LAMB4

COL11A1

COL4A1

COL6A1

LAMA5

ITGA4

LAMB2

ITGA6

HSPC22

LAMC1

AGRN

THBS3

SDC4

SPN1

ITGB5

SDC3

HSP

OKA1

ITGA10

ITGB1

CD44

ITGA1

LAMA4

CHY1

ITGA9

CD38

HMMR

ITGA9

GP1B-BA

COL1A1

COL1A2

COL1A3

COL1A4

COL1A5

COL1A6

COL1A7

COL1A8

COL1A9

COL1A10

COL1A11

COL1A12

COL1A13

COL1A14

COL1A15

COL1A16

COL1A17

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