

Figure 1 is a plot showing the distribution of the number of genes in the gene set. The x-axis is labeled "Gene List Index" and ranges from 0 to 17346. The y-axis is labeled "Number of genes" and ranges from -1.0 to 0.4. A red line represents the distribution, starting at 0, peaking at 5653 (labeled "Peak at 5653"), and crossing zero at 9190 (labeled "Zero crossing at 9190"). A green shaded area represents the distribution of the number of genes in the gene set, with labels "clus4" and "NON.clus4". The total number of genes is 17346 (in list), and 63 are in the gene set.

A density plot showing the distribution of ES values. The x-axis is labeled 'ES' and ranges from -0.4 to 0.4. 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 -0.18 (P ≈ 3.2) and 0.18 (P ≈ 2.7). A vertical black line represents the 'Observed Gene Set ES value' at ES = 0.363. The area under the red curve to the right of this line is shaded in light blue. Text labels on the x-axis indicate 'Neg. ES "NON.clus4"' on the left and 'Pos. ES: "clus4"' on the right. At the bottom, statistical values are provided: ES = 0.363, NES = 1.66, Nom. p-val = 0.0397, FWER = 0.774, and FDR = 0.0843.

Heatmap visualization showing the expression of 100 genes across 100 samples. The samples are grouped into two main clusters: **clus4** (left, red header) and **NON.clus4** (right, blue header). The color scale ranges from -2 (blue) to 2 (red), with 0 being white.

The genes listed on the y-axis are:

- Class
- PSMB9
- PSMB8
- PSMB10
- PSME2
- PSMA3
- PSME1
- PSMA4
- PSME4
- PSMA6
- PSMA5
- PSMD14
- PSMB3
- PSMC1
- PSMB2
- PSMC6
- PSMA7
- PSMD12
- PSMC2
- PSMD11
- PPP2R5C
- PSMD7
- PSMC4
- CUL1
- PSMC3
- PSMC5
- PSMB6
- PSMA2
- CSNK1A1
- PPP2CA
- PPP2R1B
- PSMB1
- PSMA1
- PSMD8
- PPP2R5A
- PSMD5
- PSMD13
- PSMB5
- PSMD3
- PSMB4
- PSMB4
- PSMB7
- SKP1
- PSMF1
- PSMD1
- PPP2R5E
- PSMD10
- PPP2R5B
- APC
- PPP2R1A
- PSMD9
- PSMD6
- PSMD2
- ETTC
- PPP2R5D
- AXIN1
- UBA52
- FRAT2
- RPS27A
- FRAT1
- PPP2CB
- CTNNB1
- FAM123B
- PSMA8