

Figure 1: A plot showing the distribution of genes in the "clus1" cluster. The top panel displays the cumulative distribution function (CDF) of the Gene List Index, which is a red line graph. The bottom panel displays the probability density function (PDF) of the Gene List Index, which is a green area graph. The x-axis represents the Gene List Index, ranging from 0 to 18090. The y-axis represents the density, ranging from -1.0 to 0.5. The plot is titled "Number of genes: 18090 (in list), 72 (in gene set)".

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 -0.28 and 0.28. A vertical black line represents the 'Observed Gene Set ES value' at ES = 0.448. The area under the red curve to the left of the observed value is shaded light blue, and the area to the right is shaded light red. Text labels on the x-axis indicate 'Neg. ES "NON.clus1"' for the left side and 'Pos. ES: "clus1"' for the right side. At the bottom, statistical values are provided: ES = 0.448, NES = 1.51, Nom. p-val = 0.0418, FWER = 0.979, and FDR = 0.176.

Heatmap visualization showing gene expression patterns across two clusters: **clus1** and **NON.clus1**. The y-axis lists 60 genes, and the x-axis represents individual samples. A color scale from blue (low expression) to red (high expression) is used. A vertical red bar on the left indicates the cluster assignment for each sample.

Gene List (Y-axis):

- Class
- CLDN11
- CDH2
- FERMT2
- CDH6
- CDH1
- FLNC
- CDH8
- ARHGAP8
- CADM1
- CDM2
- PARD6G
- CDH6
- CDH13
- IMS1
- CLDN16
- ITGB1
- ACTN1
- CLDN1
- PARVA
- CLDN9
- LAMC2
- CLDN5
- PRKCI
- CLDN6
- LAMA3
- RSU1
- MFPS
- ILK
- CLDN10
- CDH12
- CTNND1
- CLDN19
- FBLIM1
- COL1A1
- CDH15
- PARD3
- LAMB3
- PLEC
- CLDN12
- CTNBN1
- CDH1
- INADL
- CTNNA1
- CTH1
- CDH24
- CLDN4
- PVRL3
- TESK
- PARD6B
- TASP
- CLDN4
- PVR
- CD151
- CLDN18
- PVRL1
- CDH1
- PARVB
- ITGB4
- JUP
- PVRL2
- PVRL4
- CDH4
- IMS3
- PARD6A
- CLDN15
- CLDN7
- CLDN2
- CDH2
- CLDN3
- CLDN20
- CRS3
- CLDN8