

Figure 1 displays a multi-panel plot showing gene expression data for clus1 and NON.clus1. The x-axis represents the Gene List Index (0 to 18090) and the number of genes (18090 in list, 91 in gene set).

The top panel shows the log2 expression of genes. A red line represents the expression profile, which peaks at 3407 and crosses zero at 10263. A dashed horizontal line indicates the baseline expression level.

The middle panel shows a barcode of vertical lines representing gene expression. The lines are colored black, indicating expression levels.

The bottom panel shows the distribution of genes between clus1 and NON.clus1. The area under the curve is shaded green, representing the proportion of genes in each cluster. The curve shows a sharp drop at the peak of the expression profile, indicating a transition from clus1 to NON.clus1.

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 -0.25 and 0.25. A vertical black line represents the 'Observed Gene Set ES value' at ES = 0.381. The area to the left of this line is labeled 'Neg. ES "NON.clus1"' and the area to the right is labeled 'Pos. ES: "clus1"'. At the bottom, the following statistics are provided: ES = 0.381, NES = 1.52, Nom. p-val = 0.058, FWER = 0.975, and FDR = 0.175.

Heatmap visualization showing gene expression patterns across two clusters: **clus1** and **NON.clus1**. The y-axis lists genes, and the x-axis represents individual samples. A color scale from blue (low) to red (high) is shown at the bottom.

**clus1**

**NON.clus1**

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

- Clas2
- TICAM2
- MAP3K9
- MAP3K10
- TLR1
- MEF2C
- TLR2
- TLR3
- MAP3K11
- IRAK3
- TLR4
- S100B
- PELI2
- RPS6KA2
- MEF2A
- CO14
- IRAK1
- CTEB1
- NOD1
- FOX
- PELI1
- S100A2
- MAP3K1
- TAB2
- PELI3
- ATP1
- ATF2
- DUSP9
- RPS27A
- IRAK7
- RPS6KA3
- NKX2
- TAB3
- NFKBIA
- MAP3K1
- IKK
- MAP3K7
- APP
- PPP2CB
- RPS6KA3
- HMGB1
- TRAF3
- DUSP7
- MAPK1
- IL3
- MAPKAPK2
- MAPK3
- PPP2R1B
- KCNB
- CHUK
- RIPK2
- MAP2K4
- RELA
- NFPA
- LOX1
- MLOK1
- MAPK7
- TRAF3
- DUSP6
- UBEN
- IRAK4
- MAPK14
- MYD88
- ELK1
- TRAF
- TAB1
- PPP2CA
- PPP2R3D
- MAP3K
- MAPK3
- IKK3
- TICAM1
- IRAK1
- MAP2K3
- NF- $\kappa$ B
- DUSP4
- IKK $\alpha$
- MAPKAPK3
- SA1
- PPP2R1
- RPS28A1
- MAP3K
- UBA32
- CS2
- SGIR
- NOD2
- MAP2K6
- AGER

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