

Figure 1 displays a multi-panel plot showing gene expression data for the "cluser1" gene set. The x-axis represents the Gene List Index (0 to 17976) and the Number of genes (17976 in list, 90 in gene set). The y-axis represents log2 expression.

The top panel shows a blue line plot of log2 expression across the Gene List Index. A dashed horizontal line indicates the zero crossing point at index 9111. A vertical dotted green line marks the zero crossing at index 9111. A vertical dotted blue line marks the peak at index 14403.

The middle panel shows a barcode of vertical lines representing gene expression levels.

The bottom panel shows a green shaded area representing the distribution of gene expression levels, with a peak at index 14403.

Labels on the plot include:

- "cluser1"
- "NON.cluser1"
- Zero crossing at 9111
- Peak at 14403

Gene Set Null Density

Observed Gene Set ES value

$P(ES)$

Neg. ES: "NON.clus1"

Pos. ES: "clus1"

ES

ES = -0.497 NES = -1.84 Nom. p-val= 0 FWER= 0.435 FDR= 0.55

**clus1** **NON.clus1**

Heatmap visualization showing gene expression patterns across two clusters: **clus1** (left) and **NON.clus1** (right). The y-axis lists 100 genes, and the x-axis represents individual samples. The heatmap is divided into two vertical sections: **clus1** (left, blue background) and **NON.clus1** (right, red background). Each section contains a dense grid of red and blue squares representing expression levels for each gene across the samples.

Gene list (Y-axis):

- CHUK
- CDK5
- MAP2K7
- MAPK1
- PEL1
- JARID1
- RPL13
- PEL13
- NOO
- TICAM1
- TAK2
- MAPK1
- RPS27A
- PPP2R2B
- BAK2
- ATF1
- LCOT
- MAP2K7
- TAK3
- RIPK2
- SHGIR
- TRAF6
- CARD8
- MAP2K7
- CHUK
- PPP2R2D
- BECL1
- APP
- SYT10B
- MAPK9
- MAP2K2
- TRAF6
- PPP2R1A
- MEF2C
- MAPK4
- MAPK3
- MAPK10
- RPS6KA5
- IRF3
- ATF2
- IMB1
- MAP2K1
- ELK1
- UBA32
- UBQLN
- IRF1
- DUSP3
- TGK2
- MAPK11
- TRAF3
- JUN
- MEF2A
- RPS6KA1
- PPP2CA
- TBK1
- RPS6KA3
- IKBKG
- NFkBIA
- IRF4
- MAP2K3
- NFkBIB
- RIPK1
- IKBKB
- MAPK9
- PEL1
- DUSP6
- MAPKAPK2
- MAPKAPK3
- PPP2R1B
- IRAK4
- CD3
- DUSP2
- NFAB2
- IRF3
- IRF7
- MYD88
- TLR1
- DUSP4
- CD14
- TLR2
- LY86
- SAI1
- ST00A12
- TLR6
- TLR4
- RTX
- IKBKA
- TLR2
- NOO2