

Figure 1 displays a multi-panel plot showing gene set analysis results. The top panel is a blue line graph representing the 'Gene List Index' (0 to 18,525) with a peak at 14,761 and a zero crossing at 9,196. The middle panel is a barcode plot showing the distribution of genes across the index. The bottom panel is a green area plot showing the distribution of genes across the index, with labels 'clus1' and 'NON.clus1'.

Gene Set Null Density

Observed Gene Set ES value

Neg. ES "NON.clus1"

Pos. ES: "clus1"

ES

ES = -0.388 NES = -1.39 Nom. p-val= 0.0757 FWER= 0.968 FDR= 0.903

Heatmap visualization showing gene expression profiles across two clusters: **clus1** and **NON.clus1**. The y-axis lists 100 genes, and the x-axis represents individual samples. The color scale ranges from blue (low expression) to red (high expression). A vertical red line separates the two clusters. The first 50 genes are highly expressed in **clus1** (red), while the remaining 50 genes are highly expressed in **NON.clus1** (red).

Gene list (from top to bottom):

- CMH1
- ADCT19
- ADCT15
- UGA
- CACNA1C
- MAPK19
- PLA2G7C
- CACNA1B
- PRKACB
- NRAS
- MAPK14
- MAPK1
- RGS1
- MAPK9
- MAPK3
- GRIK2
- CAMK2G
- PLD1
- XRAS
- PRKAG1
- PLA2G2A
- ITPR3
- RGS2
- SRG
- MAPK10
- CALM2
- MAPK11
- CAV1
- MAPK7
- MAPK27
- MAPK1
- PRKX
- MAPK1
- CAMK2A
- CDC42
- PRKACB
- MAPK9
- ADCT11
- MAPK1
- MAPK9
- JUN
- MAPK8
- MAPK1
- PRKCD
- SMAS
- PRKCB
- SHRK
- MAPK3
- PLA2G2A
- PLD2
- ADCT7
- EGFR
- CALM1
- PLA2G2D
- MAPK6
- HBEK1
- PLD4
- GNAG
- MAPK4
- MAPK2
- PRKCA
- LHB
- GNAT1
- GNRH1
- GNRH1
- MAPK11
- ITPR3
- PLA2G1E
- GNRH2
- ITPR1
- CALM1
- MMF2
- PLA2G3C
- CACNA1D
- PLA2G4B
- PLA2G4B
- ADCT1
- CACNA1C
- PLA2G3C
- PLCB1
- PLCB1
- PLA2G4A
- PLA2G10
- PLA2G10

Sample labels (from left to right):

- JM307
- ...
- JM307