

Figure 1 displays a multi-panel plot showing gene expression data across a gene list index (0 to 18307). The top panel shows a blue line plot representing the expression level, which starts high, decreases, and then rises sharply after a peak at 15932. A dashed horizontal line indicates the zero crossing point at 9647. The middle panel shows a barcode of vertical lines representing the expression of individual genes. The bottom panel shows a green area plot representing the distribution of gene expression, which is highest at the beginning and decreases towards the end. The x-axis is labeled "Gene List Index" and ranges from 0 to 18307. The y-axis is labeled "Number of genes: 18307 (in list), 89 (in gene set)".

A density plot showing the distribution of ES values for two gene sets. The x-axis is labeled 'ES' and ranges from -0.6 to 0.6. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 3.0. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.3 and 0.3. A black vertical line at ES = -0.411 represents the 'Observed Gene Set ES value'. 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"'. Below the x-axis, the following statistics are provided: ES = -0.411, NES = -1.24, Nom. p-val= 0.215, FWER= 0.99, FDR= 1.

Heatmap visualization showing gene expression patterns 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 -2 (blue) to 2 (red).

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

- Class
- TUBA1C
- POGF1
- CDK1
- TUBB4A
- POGFA
- LRRT1
- GNAS1
- NRAS
- PCP4R
- HTR2B
- TUBB1
- EGFR
- TUBA1
- POGFR
- TUBA1A
- TUBB2C
- PLCB2
- TUBB1
- ITPR1
- PRKACA
- MAPK1
- GJA1
- POSG
- MAP2K2
- GNAS2
- TUBB2R
- TUBB2A
- ADCY6
- TUBB3
- MAP2K2
- GNAS3
- HRAS
- ADCY9
- RAF1
- CSNK1B
- MAPK9
- GRB2
- PRKCI
- MAP2K1
- GRK5
- GNA11
- KRAS
- GNAS
- ADCY7
- GUCY1A2
- MAPK1
- SOS1
- GUCY1B3
- MAPK3
- TUBA2
- PRKAB1
- TPR1
- PLCB3
- TUBB4
- TUBB1
- PRKG1
- SOS2
- ADCY1
- ADRB1
- TUBA4A
- TUBA3D
- PRKCA
- ADCY8
- POGFR
- TUBA8
- GUCY1A3
- TUBA8
- TUBB8
- DEP1
- ADCY2
- TUBB4
- PRKACG
- GNAN1
- PLCB4
- PRKCB
- PLCB1
- GRIK1
- PRKCG
- GRM1
- HTR2A
- HTR2C
- GRK5