

Figure 1 displays a multi-panel plot showing gene expression data across a gene list index (0 to 17,824).

The top panel shows the $\log_2(\text{RPKM})$ expression level (red line) versus the Gene List Index. The expression level starts high, peaks at 3160, and then decreases, crossing zero at 9077. A dashed horizontal line indicates the zero level.

The middle panel shows a barcode representation of the gene list, with vertical lines indicating the presence of genes. The barcode is divided into two main sections: "clus1" (left) and "NON.clus1" (right).

The bottom panel shows the probability of a gene being in "clus1" (green area) versus the Gene List Index. The probability is high for genes in "clus1" and drops to zero at the transition point (9077).

Gene List Index: 0, 5000, 10000, 15000, 17824
 Number of genes: 17824 (in list), 55 (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 -0.35 and 0.35. A vertical black line at ES = 0.491 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 text is displayed: ES = 0.491 NES = 1.32 Nom. p-val= 0.0489 FWER= 0.964 FDR= 1.

Heatmap showing gene expression profiles across 134 samples, categorized into 'clus1' and 'NON.clus1' groups. The y-axis lists 50 genes, and the x-axis lists 134 samples. The 'clus1' group (samples 1-67) shows a distinct red color for the first 10 genes, while the 'NON.clus1' group (samples 68-134) shows a distinct blue color for the same genes. The color scale ranges from -2 (blue) to 2 (red).

Gene	clus1 (Samples 1-67)	NON.clus1 (Samples 68-134)
Class	clus1	NON.clus1
OR1N1	Red	Blue
OR1L8	Red	Blue
OR1N2	Red	Blue
OR5B12	Red	Blue
OR1B1	Red	Blue
CAMK2B	Red	Blue
PDE1C	Red	Blue
OR2A1	Red	Blue
OR1J1	Red	Blue
OR13J1	Red	Blue
PRKACB	Red	Blue
CAMK2D	Red	Blue
OR7D2	Red	Blue
ADRBK2	Red	Blue
CNGA4	Red	Blue
OR1Q1	Red	Blue
OR51E1	Red	Blue
OR1J2	Red	Blue
OR2A25	Red	Blue
CALM3	Red	Blue
OR5B4	Red	Blue
OR2W3	Red	Blue
OR2A4	Red	Blue
OR2A7	Red	Blue
OR2A5	Red	Blue
PRKX	Red	Blue
CALML3	Red	Blue
OR6T1	Red	Blue
OR2A14	Red	Blue
GUCY1B	Red	Blue
ARRB2	Red	Blue
OR5K2	Red	Blue
CALM1	Red	Blue
OR51E2	Red	Blue
PRKACA	Red	Blue
OR2A2	Red	Blue
PRKACG	Red	Blue
CALM2	Red	Blue
OR3A2	Red	Blue
CAMK2A	Red	Blue
OR10AD1	Red	Blue
CNGB1	Red	Blue
CAMK2G	Red	Blue
ADCY3	Red	Blue
OR2C1	Red	Blue
GNAL	Red	Blue
CALML5	Red	Blue
GUCY2D	Red	Blue
OR52R1	Red	Blue
CLCA2	Red	Blue
OR52N4	Red	Blue
PRKG2	Red	Blue
OR51T1	Red	Blue
PRKG1	Red	Blue
OR13A1	Red	Blue