

Figure 1 displays a multi-panel plot illustrating gene expression data and gene set analysis for the "cluser1" gene set.

The top panel shows the log₂(RPKM) expression profile (blue line) across the Gene List Index (0 to 18,748). The profile exhibits a peak at 16,315 (labeled "Peak at 16315") and a zero crossing at 8,853 (labeled "Zero crossing at 8853"). A dashed horizontal line indicates the baseline expression level.

The middle panel displays the barcode plot, showing the number of genes (black vertical lines) associated with the "cluser1" gene set across the Gene List Index.

The bottom panel shows the probability distribution (green area) for the "cluser1" gene set (labeled "cluser1") and the "NON.cluser1" gene set (labeled "NON.cluser1"). The distribution is skewed towards the right, indicating a higher probability of genes being in the "cluser1" set.

Number of genes: 18748 (in list), 98 (in gene set)

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 a bimodal distribution with peaks at approximately -0.3 and 0.3. A vertical black line represents the 'Observed Gene Set ES value' at ES = -0.451. The area under the red curve to the left of this line is shaded in light blue. Text labels on the x-axis indicate 'Neg. ES "NON.clus1"' for the left side and 'Pos. ES: "clus1"' for the right side. Below the x-axis, the following statistics are provided: ES = -0.451, NES = -1.42, Nom. p-val= 0.0493, FWER= 0.964, and FDR= 0.921.

Chr1-1
CRBK3.1
CEBPG
PRKACG
ZFX
EDNRB
PRKCA
WNT9B
ADP1Z
TCL1
TCP7
NKX1
PLCB1
ERN1
CRBK3.1
CLIP1
MAK3
GNAS
KRAS
CREB1
CACB1
PRKCG
CTNNB1
RIT1.G
CRBK3.1
MITF
WNT9B
CAMK2G
RAF1
NRX1
CAMK2D
CREB1
EP300
GNAI2
MAL2.C
GNAS
FZD8
ASP
CRBK3.1
RIP1
MAF2K1
GNAS
RSCY
BSCY
PRKACA
WNT9B
WNT10
ADTY1
WNT9B
DGL1
PRKX
DGL2
MEF1
WNT9B
WNT9A
DGL1
CAMK2A
ADTY2
WNT9B
BSCY
FZD7
CAMK2B
WNT10A
WNT10B
WNT10C
GNAS
POMC
WNT9B
CALML2
WNT9B
FZD10
WNT9A
CALML2
WNT5A