

Figure 1 displays a multi-panel plot showing gene expression data across a gene list index (0 to 17824).

The top panel shows the $\log_2(\text{RPKM})$ expression level (Y-axis) versus the Gene List Index (X-axis). A blue line represents the expression profile, which shows a sharp peak at index 15212. A green dashed vertical line indicates the "Zero crossing at 8765".

The middle panel displays vertical bars representing gene expression levels, with a dense cluster of bars between indices 10000 and 15000, corresponding to the peak region.

The bottom panel shows the proportion of genes in "clus3" (green area) and "NON.clus3" (red area) across the gene list index. The "clus3" region is concentrated at the beginning of the list (low index), while the "NON.clus3" region is concentrated at the end (high index).

Number of genes: 17824 (in list), 68 (in gene set)

ES = -0.71 NES = -1.59 Nom. p-val= 0.0235 FWER= 0.722 FDR= 0.31

clus3 **NON.clus3**

Class

JAK2
ELK1
IRAK1
INFR2
IRAK4
TGFβ1
STAT1
MAPK1
IRF6
IL12B
MAPK7
MAPK3
TAB1
REL
JAK1
NFKB1B
TGFβ3
TRAF6
TAB2
ITGB1
MAPK14
INFR1
NFKB1
TGFβ2
MARCKSL1
GRI
NFKBIA
FOS
PTFNB
ITGA4
JUN
MAPK11
FCGR2A
CYBB
TLR4
MAPK12
NCF1
TLR2
HLA-DQB1
HLA-DMB
IL12A
HLA-DPA1
MYD88
HLA-DRI1
HLA-DQB
HLA-DRA
HLA-DPB1
HLA-DQA2
HLA-DQA1
IL1A
NCF2
PRKCB
HLA-DMA
FCGR2C
IL10
HLA-DQA
FCGR3B
FCGR1A
MAPK13
HLA-DRE5
TNF
ITGB2
NCF4
FCGR3A
ITGAM
NOS3
C3
IL1B

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