

Figure 1: A multi-panel plot showing gene expression data and gene set analysis. The top panel is a line plot of a red signal (likely gene expression) over a Gene List Index from 0 to 17,500. The signal peaks at index 3584 (marked with a red dotted line) and crosses zero at index 5773 (marked with a green dotted line). The middle panel shows a barcode of vertical lines representing gene sets. The bottom panel is a stacked area plot showing the distribution of gene sets, with a green area labeled "clus2" and a white area labeled "NON.clus2". The x-axis for all panels is "Gene List Index".

Gene Set Null Density

Observed Gene Set ES value

$P(ES)$

Neg. ES "NON.clus2"

Pos. ES: "clus2"

ES

ES = 0.384 NES = 1.6 Nom. p-val= 0.0454 FWER= 0.65 FDR= 0.279

Heatmap showing gene expression profiles across two conditions: **clus2** and **NON.clus2**. The y-axis lists 100 genes, and the x-axis shows individual samples. The heatmap is divided into two vertical sections: a red section for **clus2** and a blue section for **NON.clus2**. Each gene's expression is represented by a row of colored dots (red for high, blue for low) across the samples. The genes listed on the y-axis are:

- Class
- TNFRSF10
- CAPN2
- PRKACD2
- TNF
- PRKACA
- PIK3RS
- MTD58
- TNFRSF10C
- CHP
- TNFRSF10B
- NFB
- FAS
- PRKACA
- IRAK1
- IRAK1
- IRAK1
- BID
- NFKB1
- NFKB1
- PIK3D
- ENDOG
- AKT1
- PIK3CG
- MAP3K14
- IKBK1
- OTL1
- PRKAR1A
- BAK
- CHUK
- PPP1
- CAPN1
- CYO2
- TNFRSF10D
- IL1A
- FADD
- IRAK1
- IRAK4
- TNFRSF10A
- AKT1
- AP1
- TRADD
- PRK
- ATM
- PPP1
- BIRC2
- CASP10
- PRKACG1
- TNFRSF1A
- CASP7
- CASP8
- CSF2RB
- PPP1CB
- XIAP
- REL
- PIK3CB
- IL1AP
- PPP1CA
- CASP8
- TRAF3
- NFK1
- BAD
- ENDOG1
- IKKB
- PIK3D
- IL3RA
- PRKACA
- EXO2
- AKT1
- PIK3R1
- PPP1C
- DFFA
- IRAK
- IL1R1
- TRAF3
- CASP2
- DFFB
- IL1D
- PIK3R3
- BCL2L1
- BCL2
- CASP8
- NTRK1
- PRKAR1B