

Figure 1 displays a multi-panel plot illustrating the relationship between the Gene List Index and various metrics, specifically focusing on the number of genes in the top 100 (N_{top100}) and the number of genes in the bottom 100 ($N_{bottom100}$).

The X-axis represents the Gene List Index, ranging from 0 to 18,646 (in list) and 91 (in gene set). The Y-axis represents the number of genes.

The top panel shows the number of genes in the top 100 (N_{top100}) as a function of the Gene List Index. The red line indicates a peak at 3757, labeled "Peak at 3757".

The middle panel displays a barcode representing the distribution of gene sets across the Gene List Index. The vertical lines represent individual gene sets, and the horizontal lines represent the boundaries of the gene sets.

The bottom panel shows the number of genes in the bottom 100 ($N_{bottom100}$) as a function of the Gene List Index. The green area indicates a zero crossing at 8724, labeled "Zero crossing at 8724". The area is divided into two regions: "clus2" (left) and "NON.clus2" (right).

This density plot shows the distribution of ES values for the 'NON.clus2' gene set. 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 bimodal with peaks at approximately -0.2 and 0.2. A vertical black line at ES = 0.491 represents the 'Observed Gene Set ES value'. The plot is annotated with 'Neg. ES "NON.clus2"' on the left and 'Pos. ES: "clus2"' on the right. Below the x-axis, the following statistics are provided: ES = 0.491, NES = 1.84, Nom. p-val = 0.00395, FWER = 0.484, and FDR = 0.47.

clus2 **NON.clus2**

CHUS1
RPL13
MAPK10
SAA1
TLR1
SYNB8
FOS
SODIR
RPS6KA2
HIF1
TCFAM2
NFKB1
DUSP4
TLR2
PELI2
MAPK9
RIPK2
RPS6KA1
NR2E1
NFKB1
CD14
MYD88
IRAK2
MAPK1
MAPK4
MAPK3
BTK
PPP2CB
DUSP4
IKKIB
LY96
RIPK1
PPP2R1B
APF
TMEM189-UBE2N
TRAF6
CREB1
BCL2
UBA52
MAPKAPK2
UBE2N
PELI1
NOD2
IKKKG
RELA
NOD1
MAPK3
MAPK1
PPP2R1B
TBR1
PPP2R1A
MAPK9
IRAK1
MAPK8
DUSP3
GRIK1
HMGB1
MAPK3C
MAP2K4
MAPK14
CHUK
ICAM1
NAP1
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TAB1
RPS27A
PPP2R5D
MAPK11
MAPKAPK3
TAB3
NFKB2
RIPK2
NFKB1
ELK1
MAPK1
STOAT2
MAPK3C
ATP2
ATP1
DUSP7
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