

Figure 1: A plot showing the distribution of genes across two clusters, "clus2" and "NON.clus2", based on the Gene List Index. The top panel shows a red line representing the distribution, peaking at 4170 and crossing zero at 14398. The bottom panel shows a green area representing the distribution, with a peak at 4170 and a zero crossing at 14398. The x-axis is labeled "Gene List Index" and ranges from 0 to 22,849. The y-axis ranges from -1.0 to 0.5. A dashed horizontal line is at y=0.0. A red dotted vertical line is at x=4170, labeled "Peak at 4170". A green dotted vertical line is at x=14398, labeled "Zero crossing at 14398". The bottom panel is divided into two regions: "clus2" on the left and "NON.clus2" on the right.

Gene Set Null Density

Observed Gene Set ES value

$P(ES)$

Neg. ES "NON.clus2"

Pos. ES: "clus2"

ES

ES = 0.472 NES = 1.54 Nom. p-val= 0.00636 FWER= 0.706 FDR= 0.925

Heatmap visualization showing gene expression profiles across two clusters: **clus2** and **NON.clus2**. The y-axis lists genes, and the x-axis represents samples. The color scale ranges from blue (low expression) to red (high expression).

clus2 **NON.clus2**

Gene list (Y-axis):

- Ctcf
- WNT7A
- WNT1A
- WNT10A
- FZD9
- FZD10
- FZD11
- ASPM
- WNT10B
- CAMK2B
- ALDH3
- CALML3
- TCF7
- GNAT1
- GNAT2
- WNT10A
- FZD1
- WNT1
- WNT5
- WNT5B
- DCI
- FZD1
- CALML4
- LEF1
- WNT5B
- WNT4
- ADCV1
- HES4
- WNT5B
- ASPM
- PRK2
- FZD1
- WNT5B
- PRKACB
- GSX3
- ASPM
- PRKACB
- GUS
- CREB1
- ASPM
- MAPK1
- CREB1
- ADCV1
- ADCV1
- GNAT1
- FZD1
- MAP2K1
- WNT1
- EP300
- WNT5B
- WNT5B
- WNT5B
- CAMK2B
- PLCB1
- PLCB1
- PLCB1
- CREB1
- CTNNT1
- PRKACB
- PRKACB
- CREB1
- CREB1
- PLCB1
- TCF7
- EDN1
- ADCV1
- ADCV1
- WNT5B
- WNT5B
- WNT5B
- PRKACB
- EDNRB
- ADCV1
- CREB1
- PRKACB
- CREB1