

Figure 1: A plot showing the distribution of genes across a gene list index. The x-axis is 'Gene List Index' from 0 to 18,256. The y-axis represents density. A red line shows the distribution, peaking at index 3,919 and crossing zero at index 10,356. A green shaded area represents the 'NON.clus1' distribution, which is mostly concentrated at the end of the list. A black dashed line is at the top of the plot.

A density plot showing the probability density function (PDF) 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 0.0 to 3.0. The plot features two red curves representing the 'Gene Set Null Density'. The first curve, labeled 'Neg. ES "NON.clus1"', is centered around -0.25. The second curve, labeled 'Pos. ES: "clus1"', is centered around 0.3. A vertical black line marks the observed ES value at approximately 0.529. A legend in the top right corner identifies the red line as 'Gene Set Null Density' and the black line as 'Observed Gene Set ES value'.

ES = 0.529 NES = 1.65 Nom. p-val= 0.00612 FWER= 0.578 FDR= 0.226

Heatmap visualization showing gene expression patterns across two clusters: **clus1** and **NON.clus1**. The y-axis lists 100 genes, and the x-axis represents individual samples. The heatmap is divided into two vertical sections: a red section for **clus1** and a blue section for **NON.clus1**. Each gene's expression is represented by a horizontal bar of colored pixels (red and blue) across the samples.

Genes listed on the y-axis (from top to bottom):

- CHL3
- WNT10A
- WNT7A
- WNT5
- WIF1
- FOXI1
- DKK1
- WNT16
- WISP1
- TGCT1
- FZD2
- FOSL1
- NKX1
- TGCT1
- SFRP1
- FZD7
- CNN3
- PYGO1
- LEF1
- WNT4
- WNT5B
- WNT1
- SOX17
- WNT3
- FZD1
- DKK2C1
- WNT3B
- LEF1
- FZD3
- KREMEN1
- ESM
- CNN3
- LRN1
- APC
- WNT11
- WNT2
- FRA1T1
- DWL2
- DAAM1
- LRP6
- CXCL4
- ACTB
- LEP5
- CTNNB1
- FOSCA
- CTNNB1P1
- EPH2
- WNT7B
- SEMP2
- BTRC
- FRZB
- CNN1
- CSNK1G1
- FZD6
- AES
- FBXW6
- CNN1D
- FZD5
- TLE1
- FBXW2
- FBXW1
- CSNK1A1
- CTBP1
- CTBP2
- GSK3A
- SLOCASH1
- PTF1A
- CSNK2A1
- PTF1A
- PTX2
- SOX3
- FZD4
- PRK13A
- GSK3B
- WNT9A
- GAPDH
- AKN1
- NLK
- MYC
- RHOA
- DVL1
- HSP1
- SFRP4
- FSHB
- FTB