

Figure 1: A multi-panel plot showing the relationship between gene list index and various metrics for the "clus3" gene set. The top panel is a line plot of the "clus3" score (blue line) against the gene list index (0 to 17,259). The score starts at approximately 0.5, decreases to a minimum of about 0.1 at index 14,296, and then increases back to 0.5. A horizontal dashed line is at y=0.5. A vertical green line marks the "Zero crossing at 8873" and a vertical blue line marks the "Peak at 14296". The middle panel shows a barcode of vertical lines representing the number of genes in the "clus3" set (93) across the gene list index. The bottom panel is a green area plot showing the distribution of the "clus3" score across the gene list index, with a peak at index 14,296. The x-axis is labeled "Gene List Index" and "Number of genes: 17259 (in list), 93 (in gene set)".

Gene Set Null Density

Observed Gene Set ES value

P(ES)

Neg. ES "NON.clus3"

Pos. ES: "clus3"

ES

ES = -0.424 NES = -1.24 Nom. p-val= 0.153 FWER= 0.988 FDR= 0.241

Heatmap visualization showing gene expression patterns across two clusters: **clus3** and **NON.clus3**. The y-axis lists 100 genes, and the x-axis represents individual samples. The heatmap is divided into two main vertical sections: **clus3** (left, red header) and **NON.clus3** (right, blue header). The color scale ranges from blue (low expression) to red (high expression).

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

- CNR1
- WNT7B
- CCN1
- ADCT1
- ADCT2
- CAMK2A
- WNT9A
- ASB
- CALML6
- CAMK2B
- WNT8B
- CREB1
- MC1R
- PRKAC
- HRAS
- DNAH2
- ADCT1
- WNT11
- WNT6
- POMC
- FZD3
- NTF1
- WNT1
- WNT5
- WNT16
- PRKAC
- ADCT4
- CREB1
- GNAS
- EDN1
- WNT4
- HRAS
- CTNNA1
- OSR1
- TCF7L1
- DNAH3
- CREB1
- WNT10B
- PRKX
- CREB1
- GNAS
- MAP2K2
- WNT6
- HRAS
- ASB
- CAMK2G
- PLCB4
- EPOR
- CALML8
- CALM1
- GNAS
- MAP2K2
- GNAS
- ADCT4
- MAPK3
- CREBBP
- PLCB1
- PLCB2
- CALM3
- WNT7A
- PRKACA
- WNT9B
- ADCT1
- WNT1
- MAP2K1
- NTF2
- TCF7
- PRKCA
- TCF7L2
- ASCT1
- FZD2
- GNAS
- CREB1
- FZD1
- FZD9
- FZD4
- LEF1
- PRKACG
- WNT10A
- PLCB4
- FZD8
- WNT5A
- PRKACA
- FZD3
- FZD4
- WNT8B
- EDNRB
- GNAS
- CAMK2D