

Figure 1 displays a multi-panel plot showing the distribution of gene lists across clusters. The x-axis represents the Gene List Index, ranging from 0 to 17,824. The y-axis represents the Number of genes: 17,824 (in list), 192 (in gene set).

The top panel shows a red line plot representing the distribution of gene lists. The curve peaks at 8109, labeled "Peak at 8109", and crosses the zero line at 9540, labeled "Zero crossing at 9540".

The middle panel shows a barcode representation of the gene lists, with vertical lines indicating the presence of genes. The density of lines is highest around the peak at 8109.

The bottom panel shows a green area plot representing the distribution of gene lists. The area is shaded green, and the curve is labeled "clus7" on the left and "NON.clus7" on the right.

ES = 0.322 NES = 1.96 Nom. p-val= 0.0158 FWER= 0.184 FDR= 1

clus7 **NON.clus7**

Heatmap visualization comparing gene expression profiles between two clusters: **clus7** (left) and **NON.clus7** (right). The y-axis lists 48 gene samples, and the x-axis represents expression levels across 1000 genes. The heatmap is divided into two main sections: **clus7** (left) and **NON.clus7** (right). The **clus7** section shows a distinct pattern of high and low expression for the first 48 genes, while the **NON.clus7** section shows a more uniform expression profile.