

Figure 1: A plot showing the distribution of genes in the "clus4" cluster. The x-axis is "Gene List Index" (0 to 17824) and the y-axis is "Number of genes" (0 to 17824). A blue line represents the cumulative distribution function (CDF) of genes in the "clus4" cluster. A green vertical line marks the "Zero crossing at 8216". A blue vertical line marks the "Peak at 14449". A green shaded area at the bottom represents the "clus4" cluster, and a blue shaded area at the top represents the "NON.clus4" cluster. The plot shows that the "clus4" cluster is highly concentrated at the beginning of the gene list, while the "NON.clus4" cluster is more spread out.

The heatmap displays the expression levels of 100 genes across 100 samples. The genes are listed on the y-axis, and the samples are listed on the x-axis. The samples are grouped into two main clusters: **clus4** (red background) and **NON.clus4** (blue background). The color scale ranges from -2 (blue) to 2 (red), with 0 being white. The genes are ordered by their expression pattern across the samples. The heatmap shows a clear separation between the two clusters, with most genes showing higher expression in the **clus4** group and lower expression in the **NON.clus4** group. Some genes show higher expression in the **NON.clus4** group, such as *HIST1H4B* and *HIST1H4C*. The heatmap is a square matrix with a color gradient from blue to red, indicating the expression levels of the genes across the samples.