

Figure 1 displays the distribution of gene lists across clusters, showing the number of gene lists (top panel) and the proportion of gene lists in the "clus4" cluster (bottom panel) as a function of the Gene List Index (0 to 17996).

The top panel shows the number of gene lists (Y-axis, 0 to 1000) versus the Gene List Index (X-axis, 0 to 17996). The distribution is highly skewed, peaking at 2877 (Peak at 2877) and crossing zero at 8896 (Zero crossing at 8896). The distribution is highly skewed, peaking at 2877 (Peak at 2877) and crossing zero at 8896 (Zero crossing at 8896).

The bottom panel shows the proportion of gene lists in the "clus4" cluster (Y-axis, 0.0 to 1.0) versus the Gene List Index (X-axis, 0 to 17996). The proportion of gene lists in the "clus4" cluster decreases rapidly from 1.0 at index 0 to near 0.0 by index 2877, and remains near 0.0 for the remainder of the index range. The proportion of gene lists in the "NON.clus4" cluster increases rapidly from 0.0 at index 0 to near 1.0 by index 2877, and remains near 1.0 for the remainder of the index range.

Number of genes: 17996 (in list), 115 (in gene set)

ES = 0.754 NES = 1.72 Nom. p-val= 0.00418 FWER= 0.481 FDR= 0.81

Heatmap visualization showing gene expression profiles across two clusters: **clus4** and **NON.clus4**. The y-axis lists 100 genes, and the x-axis represents individual samples. The heatmap is divided into two main vertical sections: **clus4** (left) and **NON.clus4** (right). The **clus4** section shows a distinct pattern of high expression (red) for genes like HES1, HES2, HES3, HES4, HES5, HES6, HES7, HES8, HES9, HES10, HES11, HES12, HES13, HES14, HES15, HES16, HES17, HES18, HES19, HES20, HES21, HES22, HES23, HES24, HES25, HES26, HES27, HES28, HES29, HES30, HES31, HES32, HES33, HES34, HES35, HES36, HES37, HES38, HES39, HES40, HES41, HES42, HES43, HES44, HES45, HES46, HES47, HES48, HES49, HES50, HES51, HES52, HES53, HES54, HES55, HES56, HES57, HES58, HES59, HES60, HES61, HES62, HES63, HES64, HES65, HES66, HES67, HES68, HES69, HES70, HES71, HES72, HES73, HES74, HES75, HES76, HES77, HES78, HES79, HES80, HES81, HES82, HES83, HES84, HES85, HES86, HES87, HES88, HES89, HES90, HES91, HES92, HES93, HES94, HES95, HES96, HES97, HES98, HES99, HES100. The **NON.clus4** section shows a different pattern of expression, with many genes showing low expression (blue) across most samples.