

Figure 1 consists of three vertically stacked panels sharing a common x-axis labeled "Gene List Index" ranging from 0 to 15,000. The top panel shows a red line graph representing the number of genes in the gene set (y-axis) versus the number of genes in the list (x-axis). The curve starts at a baseline, rises to a peak at index 5352, and then gradually declines. A horizontal dashed line is drawn across the plot. The middle panel displays a barcode-like representation of gene lists as vertical black lines of varying heights. The bottom panel is a green area plot showing the distribution of gene lists. A vertical green line marks the "Zero crossing at 10356". The area under the curve is labeled "clus1" on the left and "NON.clus1" on the right.

A density plot showing the distribution of ES values. The x-axis is labeled 'ES' and ranges from -0.5 to 0.5. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 2.5. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks around -0.4 and 0.4. A vertical black line at ES = 0.577 represents the 'Observed Gene Set ES value'. The area under the red curve to the right of this line is shaded in light blue. Text labels on the x-axis indicate 'Neg. ES "NON.clus1"' on the left and 'Pos. ES: "clus1"' on the right. At the bottom, statistical values are provided: ES = 0.577, NES = 1.48, Nom. p-val = 0.0381, FWER = 0.88, and FDR = 0.183.

Heatmap visualization showing gene expression profiles across 100 samples, grouped into two clusters: **clus1** and **NON.clus1**. The y-axis lists 100 genes, and the x-axis represents individual samples. The heatmap is color-coded by expression level, with red indicating high expression and blue indicating low expression. The first 50 samples belong to **clus1**, and the next 50 belong to **NON.clus1**. The expression patterns for many genes differ significantly between the two clusters, particularly for genes like ESRRA, ESRB, ESRD, ESRF, ESRG, ESRH, ESRJ, ESRK, ESRM, ESRN, ESRP, ESRQ, ESRR, ESRV, ESRW, ESRX, ESRY, ESRZ, ESR1, ESR2, ESR3, ESR4, ESR5, ESR6, ESR7, ESR8, ESR9, ESR10, ESR11, ESR12, ESR13, ESR14, ESR15, ESR16, ESR17, ESR18, ESR19, ESR20, ESR21, ESR22, ESR23, ESR24, ESR25, ESR26, ESR27, ESR28, ESR29, ESR30, ESR31, ESR32, ESR33, ESR34, ESR35, ESR36, ESR37, ESR38, ESR39, ESR40, ESR41, ESR42, ESR43, ESR44, ESR45, ESR46, ESR47, ESR48, ESR49, ESR50, ESR51, ESR52, ESR53, ESR54, ESR55, ESR56, ESR57, ESR58, ESR59, ESR60, ESR61, ESR62, ESR63, ESR64, ESR65, ESR66, ESR67, ESR68, ESR69, ESR70, ESR71, ESR72, ESR73, ESR74, ESR75, ESR76, ESR77, ESR78, ESR79, ESR80, ESR81, ESR82, ESR83, ESR84, ESR85, ESR86, ESR87, ESR88, ESR89, ESR90, ESR91, ESR92, ESR93, ESR94, ESR95, ESR96, ESR97, ESR98, ESR99, ESR100.