

Figure 1 is a plot showing the distribution of the number of genes in the *clus2* cluster across the gene list index. The x-axis represents the Gene List Index (0 to 18307), and the y-axis represents the Number of genes (-1.0 to 0.5). The plot is divided into two regions: "clus2" (left) and "NON.clus2" (right). A red line shows the cumulative distribution, peaking at 1168 and crossing zero at 8154. A green shaded area shows the density of genes in the *clus2* cluster, with a peak at 1168 and a zero crossing at 8154. The plot is divided into two regions: "clus2" (left) and "NON.clus2" (right).

A density plot showing the distribution of ES values for two gene sets. The x-axis is labeled 'ES' and ranges from approximately -0.8 to 0.8, with major ticks at -0.5, 0.0, and 0.5. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 2.5, with major ticks at 0.0, 0.5, 1.0, 1.5, 2.0, and 2.5. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately -0.4 (height ~1.75) and 0.4 (height ~1.5). A black vertical line at ES = 0.46 represents the 'Observed Gene Set ES value'. The area under the red curve to the left of this line is shaded light blue and labeled 'Neg. ES "NON.clus2"'. The area to the right is shaded light red and labeled 'Pos. ES: "clus2"'. Below the x-axis, the following statistics are listed: ES = 0.46 NES = 1.06 Nom. p-val= 0.387 FWER= 0.999 FDR= 1.

| Class | clus2 | NON.clus2 |
|---------|-------|-----------|
| TAS2R4 | | |
| TAS2R19 | | |
| TAS2R31 | | |
| KCNB1 | | |
| TAS2R14 | | |
| PRKACG | | |
| TAS2R3 | | |
| GNB3 | | |
| PRKX | | |
| TAS2R20 | | |
| ADCY8 | | |
| TAS1R3 | | |
| TAS2R5 | | |
| TAS2R43 | | |
| CACNA1A | | |
| TAS2R13 | | |
| TAS2R10 | | |
| TAS2R50 | | |
| TAS2R46 | | |
| PLCB2 | | |
| CACNA1B | | |
| TRPM5 | | |
| GNAS | | |
| PRKACB | | |
| TAS2R42 | | |
| ADCY6 | | |
| GNB1 | | |
| GRM4 | | |
| ADCY4 | | |
| PDE1A | | |
| SCNN1A | | |
| PRKACA | | |
| ITPR3 | | |
| TAS1R1 | | |
| ACCN1 | | |
| GNG13 | | |
| SCNN1B | | |
| GNG3 | | |
| SCNN1G | | |