

A density plot showing the probability density function (P(ES)) of ES values for two gene sets. The x-axis is labeled 'ES' and ranges from approximately -1.0 to 1.0, with major ticks at -0.5, 0.0, and 0.5. The y-axis is labeled 'P(ES)' and ranges from 0.0 to 2.0, with major ticks at 0.0, 0.5, 1.0, 1.5, and 2.0. A red curve represents the 'Gene Set Null Density', which is bimodal with peaks at approximately ES = -0.448 and ES = 0.379. A vertical black line represents the 'Observed Gene Set ES value' at ES = -0.448. The area under the red curve to the left of the observed value is shaded light blue and labeled 'Neg. ES "NON.clus1"'. The area under the red curve to the right of the observed value is shaded light orange and labeled 'Pos. ES: "clus1"'. Below the x-axis, the following text is displayed: 'ES = -0.448 NES = -1.08 Nom. p-val= 0.379 FWER= 1 FDR= 0.543'.

Heatmap visualization showing gene expression profiles across two clusters: **clus1** and **NON.clus1**. The y-axis lists 100 genes, and the x-axis shows expression levels for each gene across the two clusters. The color scale ranges from 0 (blue) to 1 (red).

Genes listed on the y-axis (from top to bottom):

- OSX
- GNAS1
- CHN1
- CTSD
- TRIP
- HLA-DQA1
- HLA-DQB1
- HLA-DQA2
- HLA-DQB2
- HLA-DQA3
- HLA-DQB3
- HLA-DQA4
- HLA-DQB4
- HLA-DQA5
- HLA-DQB5
- HLA-DQA6
- HLA-DQB6
- HLA-DQA7
- HLA-DQB7
- HLA-DQA8
- HLA-DQB8
- HLA-DQA9
- HLA-DQB9
- HLA-DQA10
- HLA-DQB10
- HLA-DQA11
- HLA-DQB11
- HLA-DQA12
- HLA-DQB12
- HLA-DQA13
- HLA-DQB13
- HLA-DQA14
- HLA-DQB14
- HLA-DQA15
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- HLA-DQA16
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