

# PDF Output of CLIC (clustering by inferred co-expression)

## Dataset:

Num of genes in input gene set: 42

Total number of genes: 16493

## CLIC PDF output has three sections:

### 1) Overview of Co-Expression Modules (CEMs)

- Heatmap shows pairwise correlations between all genes in the input query gene set.
- Red lines shows the partition of input genes into CEMs, ordered by CEM strength.
- Each row shows one gene, and the brightness of squares indicates its correlations with other genes.
- Gene symbols are shown at left side and on the top of the heatmap.

### 2) Details of each CEM and its expansion CEM+

- Top panel shows the posterior selection probability (dataset weights) for top GEO series datasets.
- Bottom panel shows the CEM genes (blue rows) as well as expanded CEM+ genes (green rows).
- Each column is one GEO series dataset, sorted by their posterior probability of being selected.
- The brightness of squares indicates the gene's correlations with CEM genes in the corresponding dataset.
- CEM+ includes genes that co-express with CEM genes in high-weight datasets, measured by LLR score.

### 3) Details of each GEO series dataset and its expression profile:

- Top panel shows the detailed information (e.g. title, summary) for the GEO series dataset.
- Bottom panel shows the background distribution and the expression profile for CEM genes in this dataset.

