

ES = -0.328 NES = -1.25 Nom. p-val= 0.102 FWER= 0.997 FDR= 0.838

Heatmap visualization showing gene expression profiles across 100 samples. The genes are grouped into two main clusters: **clus1** (red header) and **NON.clus1** (blue header). The samples are grouped into two main clusters: **JM.DT** (red header) and **JM.DT** (blue header). The heatmap shows a clear separation of gene expression profiles between the two sample groups, with **clus1** genes generally showing higher expression in the **JM.DT** group and **NON.clus1** genes generally showing higher expression in the **JM.DT** group.

Genes listed (from top to bottom):

- GNAS
- PLA2G2A
- MAPK13
- PLA2G2B
- PLCB2
- MAPK5
- ADCY7
- HR23F
- PRKCB
- PLA2G2A
- ITPR2
- ITPR1
- MMP14
- MAPK9
- ADCY4
- HRAS
- PRRX
- CDC42
- MAP2K2
- MAP2K2
- GRB2
- CACNA1B
- MAPK3
- MAPK3
- HRAS
- PLA2G1B
- PTK2B
- ADCY7
- CAMK2D
- PRKCB
- MAPK14
- PRKCA
- CALM1
- CALM1
- CALM2
- MAPK14
- PRKCB
- ATP1A
- ELK1
- MAPK9
- MAPK9
- GNAS
- PLA2G1B
- GNAS
- MAPK14
- MAPK14
- PLCB2
- CALM1
- PRKCA
- EGFR
- EGFR
- PRKACB
- MAPK9
- ADCY9
- MAPK9
- PLCB2
- SOS1
- MAPK9
- PRKACB
- MAPK9
- CALM1
- PLA2G1A
- CAMK2D
- GNRH1
- SRC
- GNAT1
- ADCY5
- CAMK2B
- PRKCB
- GNRH1
- PRKCB
- PLCB2
- ADCY7
- ITPR1
- CACNA1B
- CACNA1C
- MAPK13
- ADCY5