**Gene Set 180 : KEGG_ALLOGRAFT_REJECTION**

Running Enrichment Score (RES)

Zero crossing at 8997

Peak at 14844

"clus1"

"NON.clus1"

Gene List Index
Number of genes: 17976 (in list), 31 (in gene set)
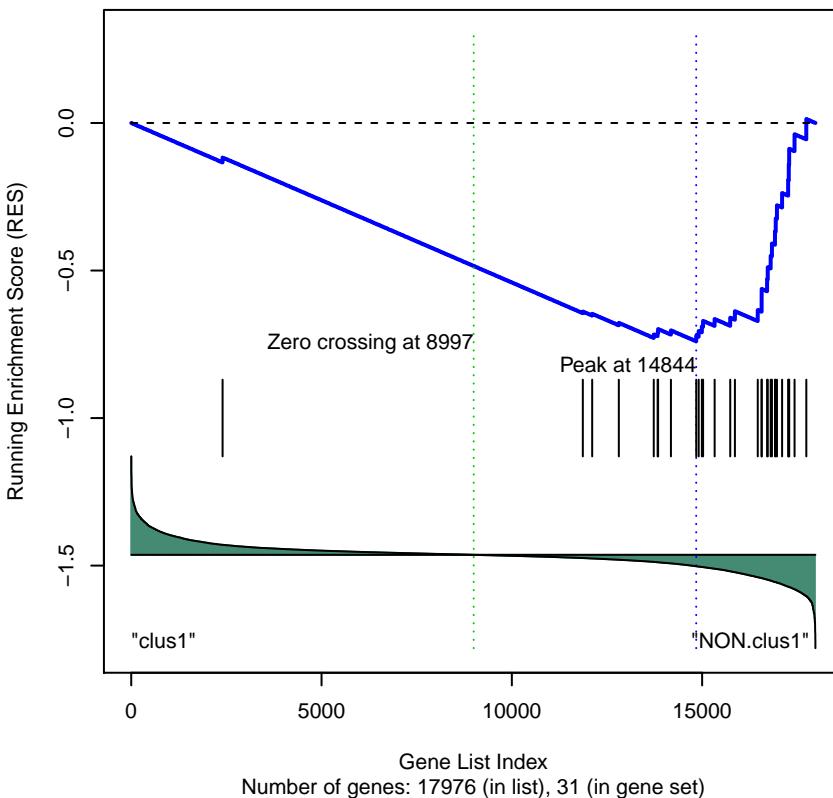
**Gene Set Null Distribution**

P(ES)

— Gene Set Null Density
— Observed Gene Set ES value

Neg. ES "NON.clus1"

Pos. ES: "clus1"

ES
ES = −0.74  NES = −1.42 Nom. p−val= 0.046 FWER= 0.931 FDR= 0.224
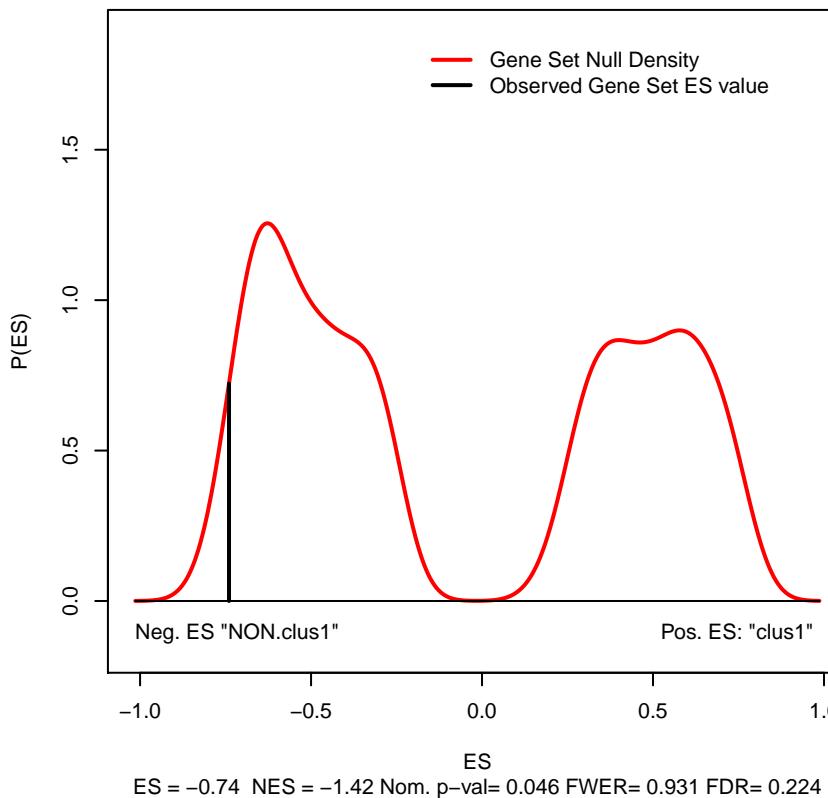
**Heat Map for Genes in Gene Set**

clus1        NON.clus1

Class
IL12A
HLA−DRB5
HLA−E
HLA−C
HLA−DRB1
FAS
HLA−F
HLA−B
IFNG
IL12B
HLA−A
HLA−DPA1
HLA−DPB1
HLA−DRA
HLA−DMA
HLA−DQA1
CD40
CD80
HLA−DMB
CD40LG
CD28
HLA−G
HLA−DQA2
HLA−DOB
PRF1
GZMB
FASLG
IL10
HLA−DOA
TNF
CD86