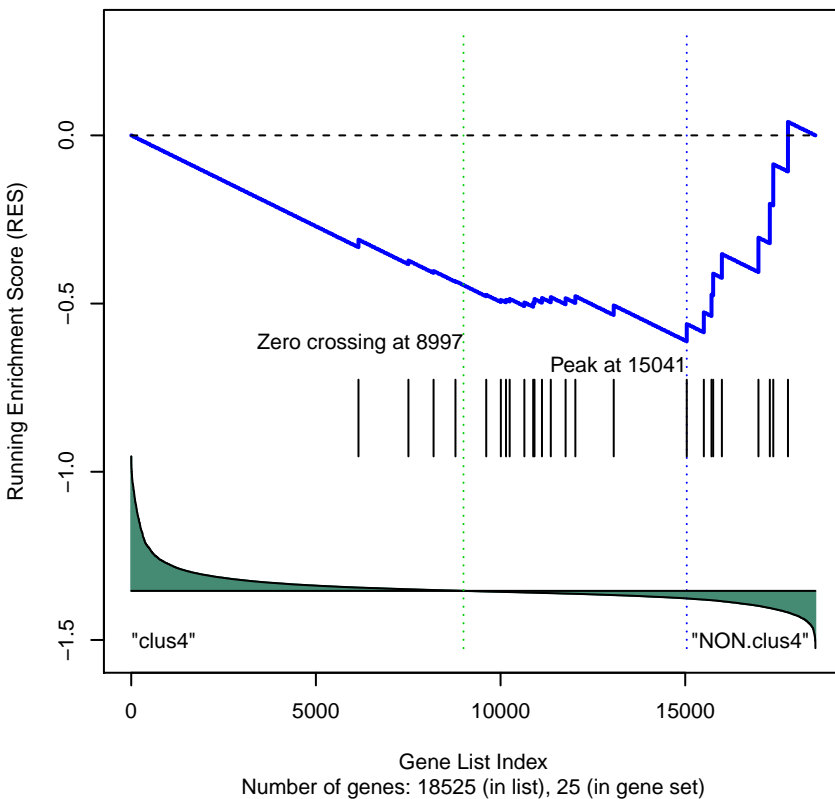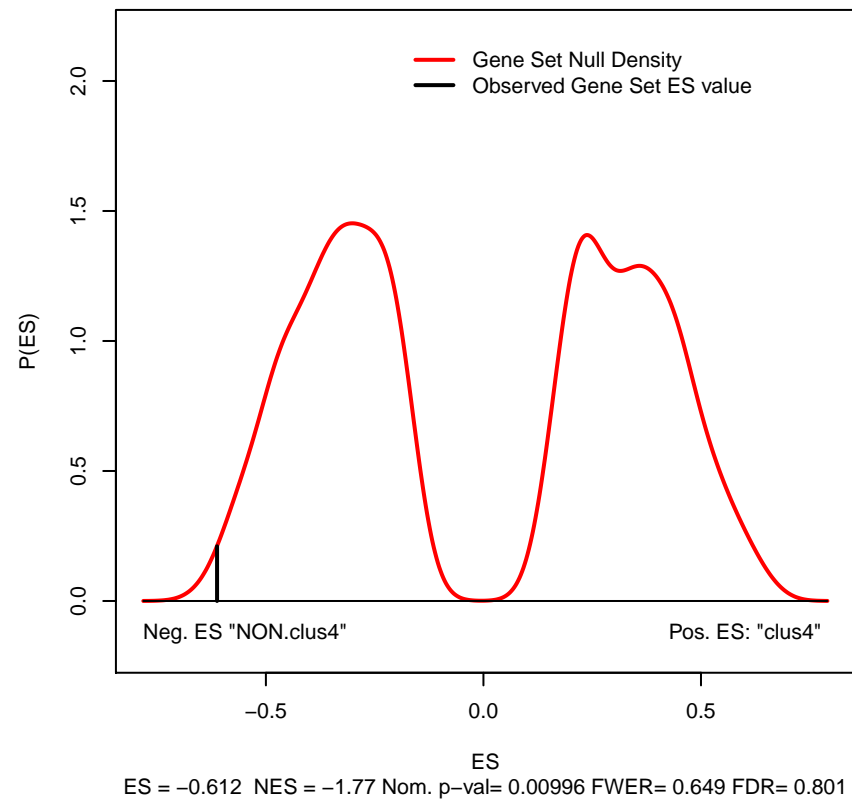**: REACTOME_SMAD2_SMAD3_SMAD4_HETEROTRIMER_REGULATES**

Gene Set Null Distribution

Heat Map for Genes in Gene Set

Running Enrichment Score (RES)

Zero crossing at 8997

Peak at 15041

"clus4"

"NON.clus4"

Gene List Index
Number of genes: 18525 (in list), 25 (in gene set)

P(ES)

— Gene Set Null Density
— Observed Gene Set ES value

Neg. ES "NON.clus4"

Pos. ES: "clus4"

ES

ES = −0.612 NES = −1.77 Nom. p−val= 0.00996 FWER= 0.649 FDR= 0.801

clus4   NON.clus4

Class
CDK9
SMAD4
UBA52
CCNT2
SP1
CCNC
HDAC1
RPS27A
WWTR1
TFDP1
SMAD2
E2F4
TGIF2
TGIF1
MEN1
JUNB
E2F5
SMAD3
CDK8
SMAD7
CCNT1
MYC
RBL1
CDKN2B
SERPINE1