**Gene Set 82 : KEGG_AMINOACYL_TRNA_BIOSYNTHESIS**

Running Enrichment Score (RES)

Zero crossing at 7545

Peak at 5084

"clus4"

"NON.clus4"

Gene List Index
Number of genes: 18170 (in list), 40 (in gene set)
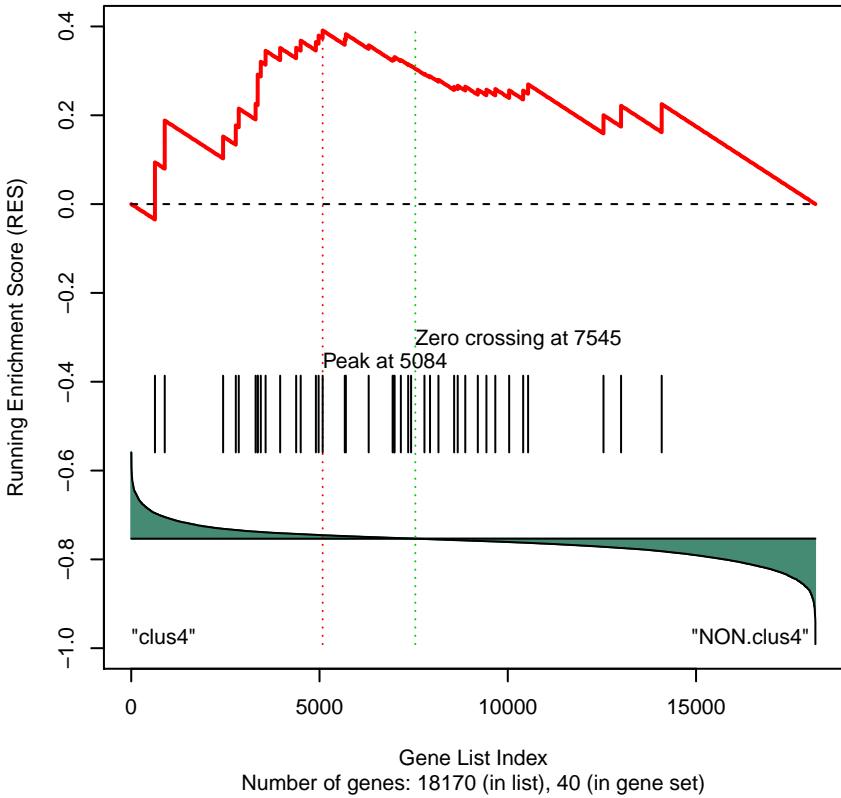
**Gene Set Null Distribution**

P(ES)

— Gene Set Null Density
— Observed Gene Set ES value

Neg. ES "NON.clus4"

Pos. ES: "clus4"

ES

ES = 0.391  NES = 1.54 Nom. p−val= 0.114 FWER= 0.859 FDR= 0.423
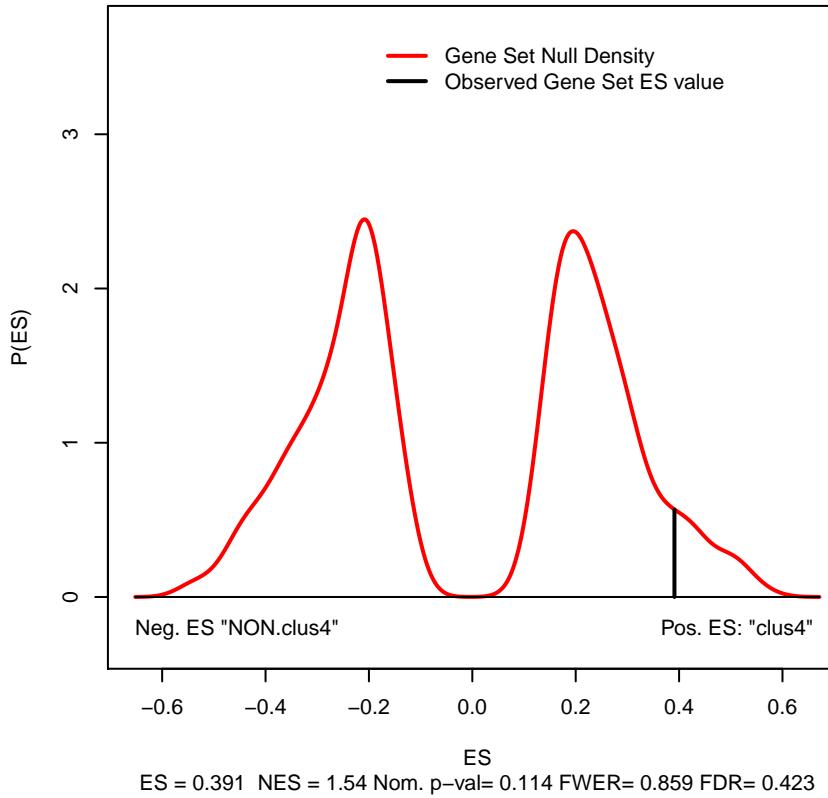
**Heat Map for Genes in Gene Set**

clus4      NON.clus4

Class
WARS
TARSL2
RARS
TARS
VARS
CARS2
KARS
YARS
FARS2
GARS
YARS2
HARS2
DARS
SARS2
FARSA
HARS
CARS
IARS
MTFMT
MARS
IARS2
AARS
NARS2
RARS2
FARSB
QARS
VARS2
SARS
DARS2
MARS2
AARS2
LARS2
EPRS
LARS
PSTK
EARS2
NARS
PARS2
WARS2
SEPSECS