

MYC

green: gain

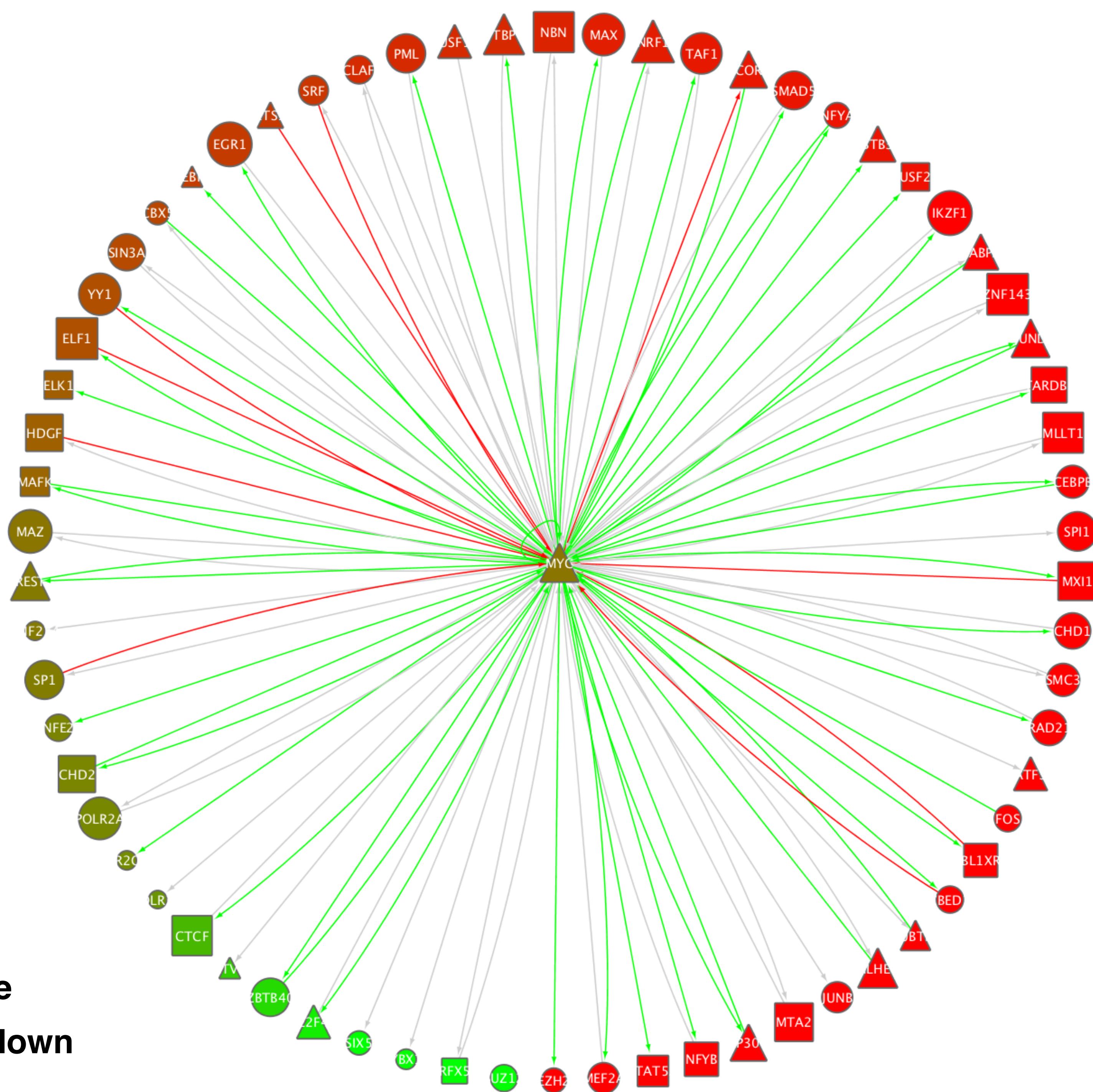
red: loss

grey: common

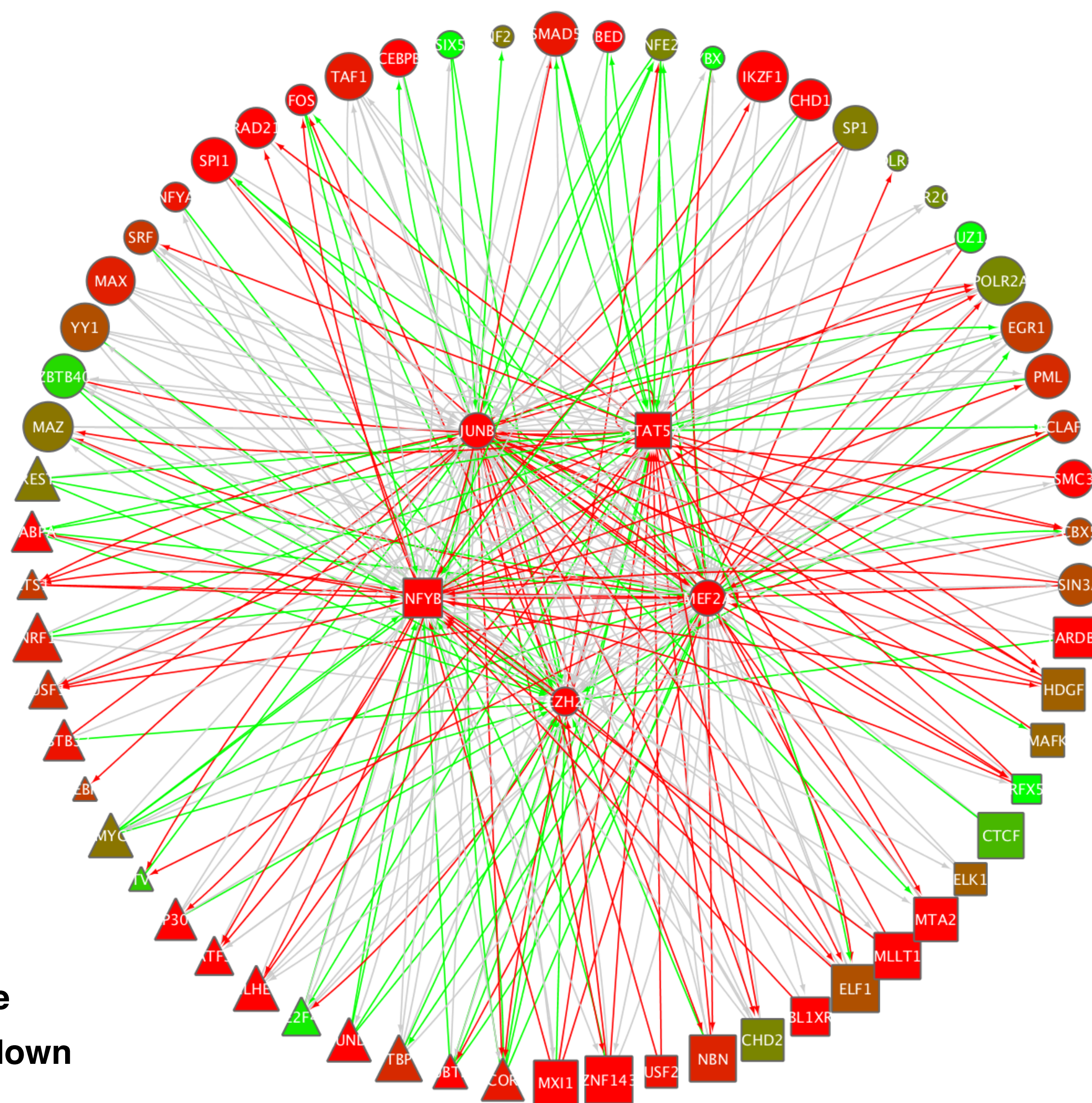
triangle: hierNet rank up

circle: hierNet no change

rectangle: hierNet rank down



Top 5 oncogene regulators



green: gain

red: loss

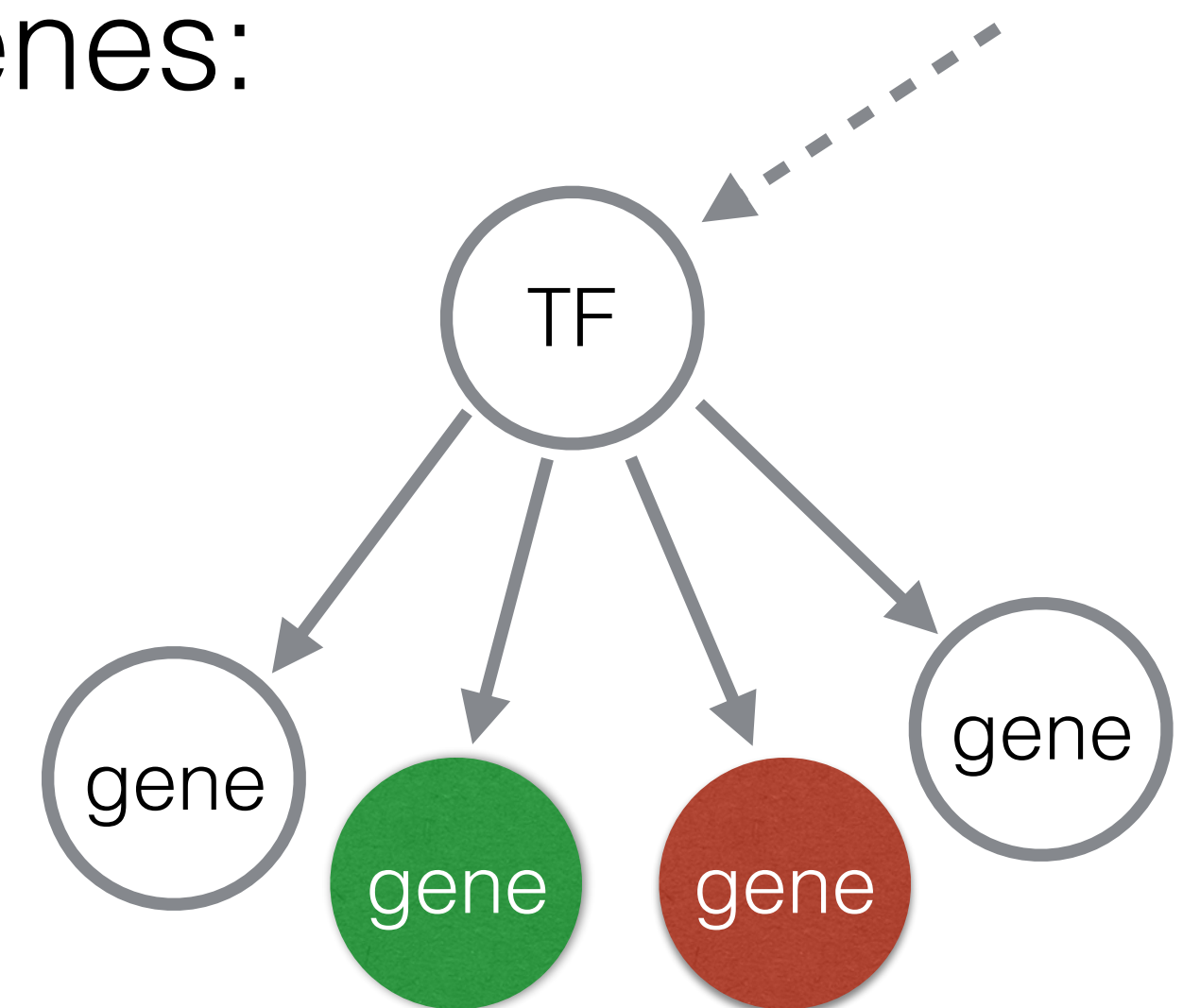
grey: common

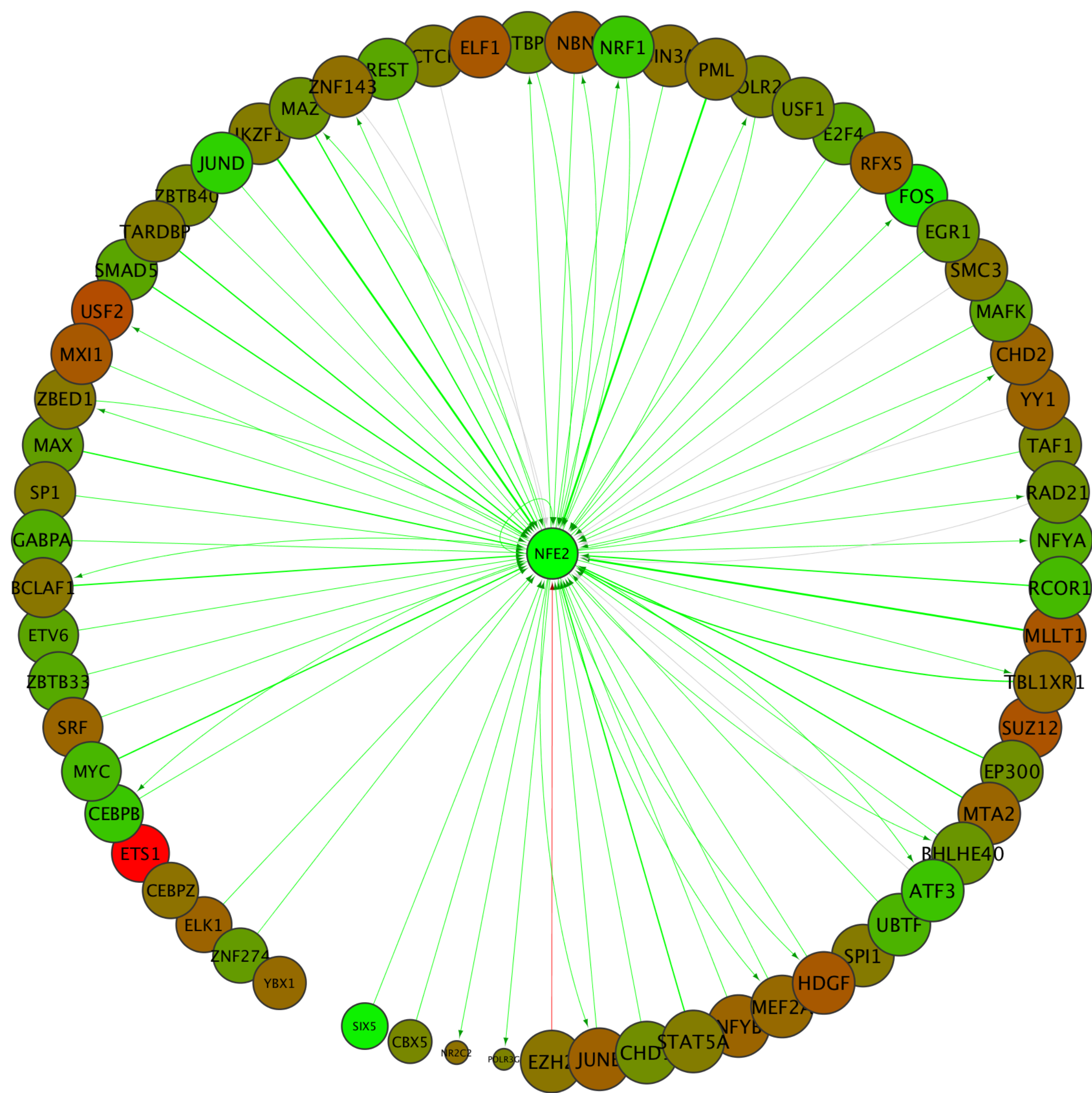
triangle: hierNet rank up

circle: hierNet no change

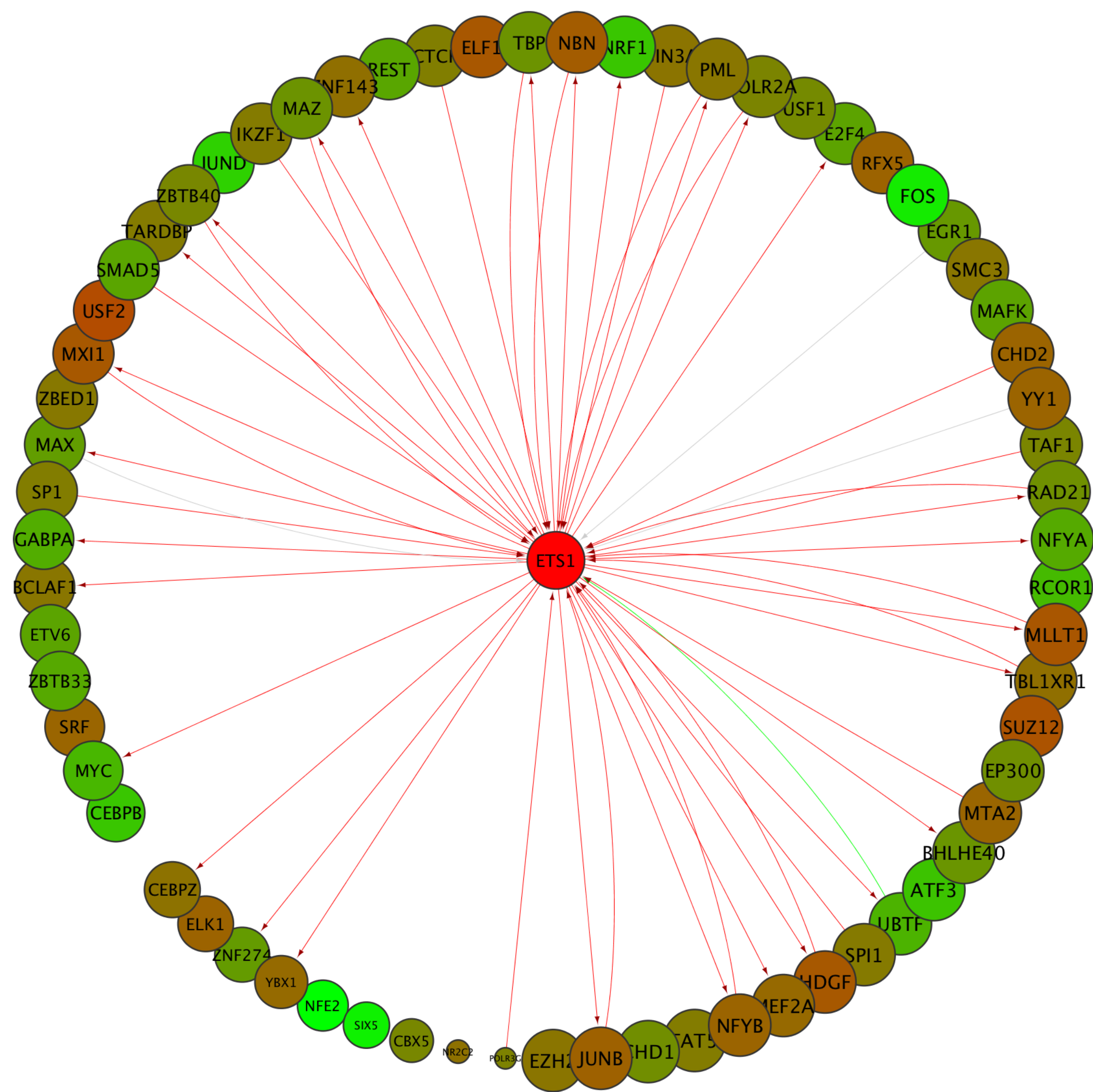
rectangle: hierNet rank down

- TF regulates many target gene(s)
- Using UniProt annotation of 234 oncogenes and 176 tumor suppressor genes, target genes of 67 common TFs were evaluated
- Using Fisher's exact test, p-values on TF's target enrichment in cancer-related genes were calculated
- Size of node shows target enrichment in cancer genes: larger = regulator of cancer genes
- node color: **green = up-wired** , **red = down-wired**
- edge color: **green = gain** , **red = loss**





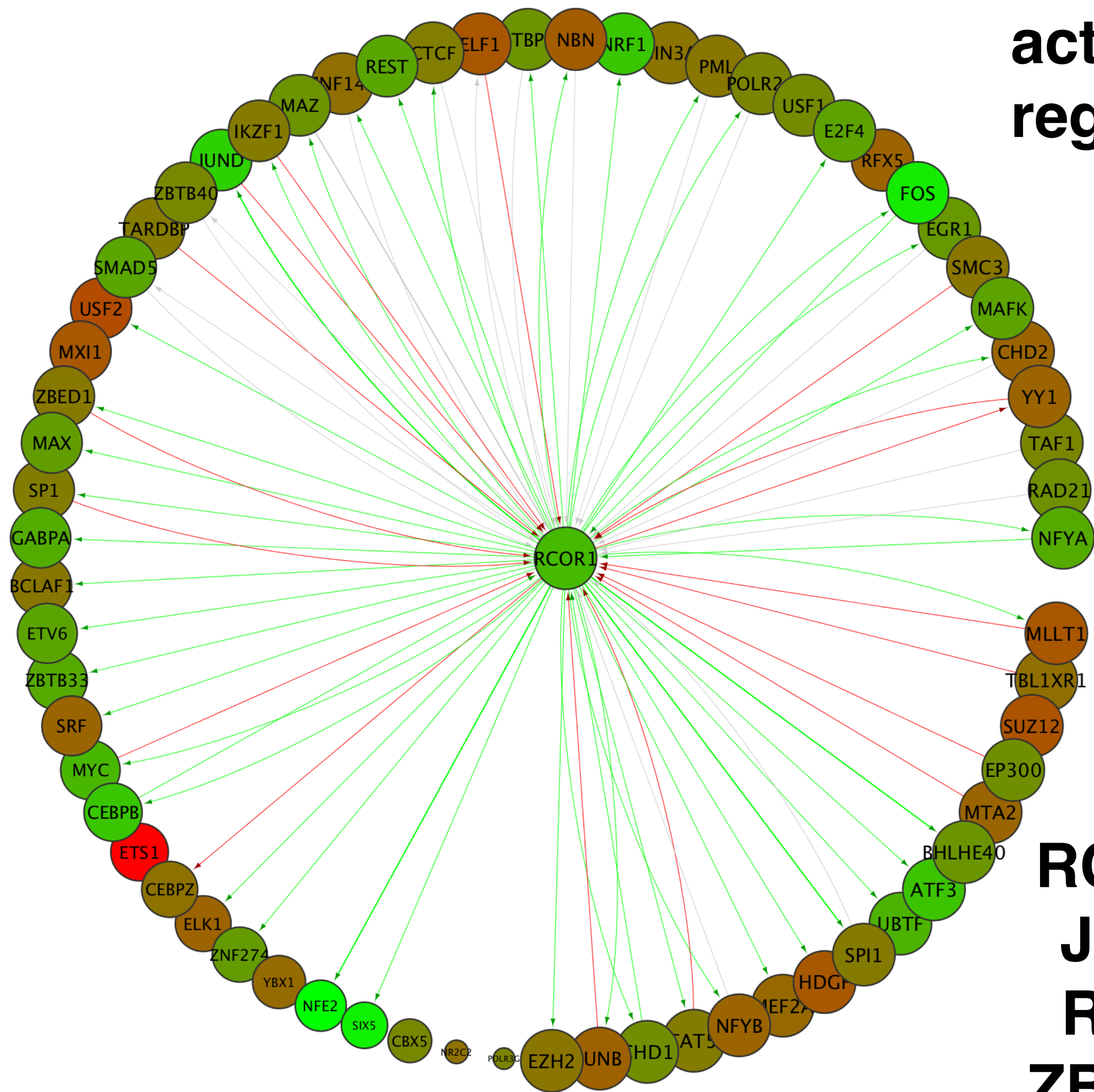
gain >> loss
 up-wiring
NFE2
SIX5
FOS
JUND
NRF1



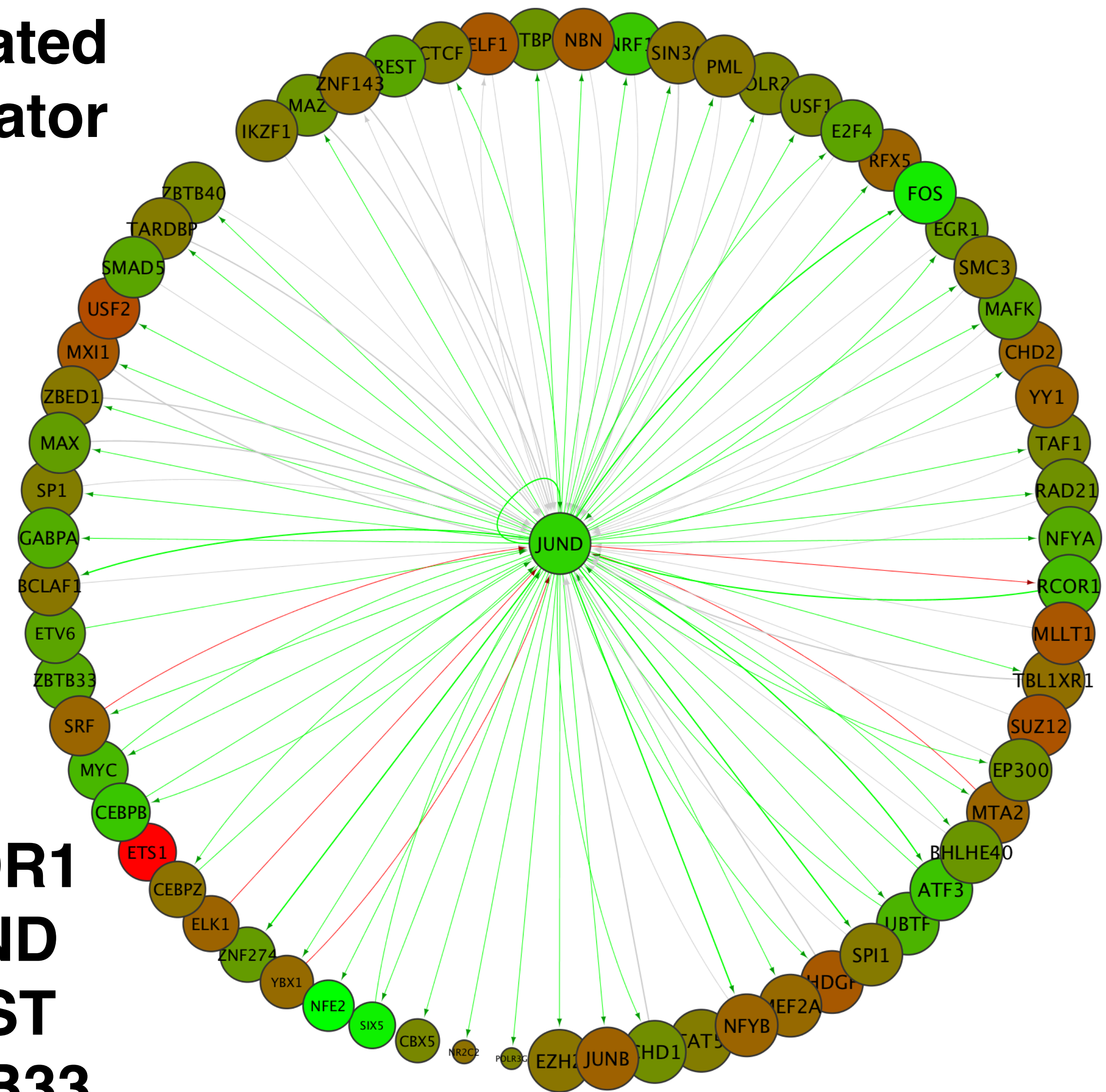
loss >> gain
down-wiring

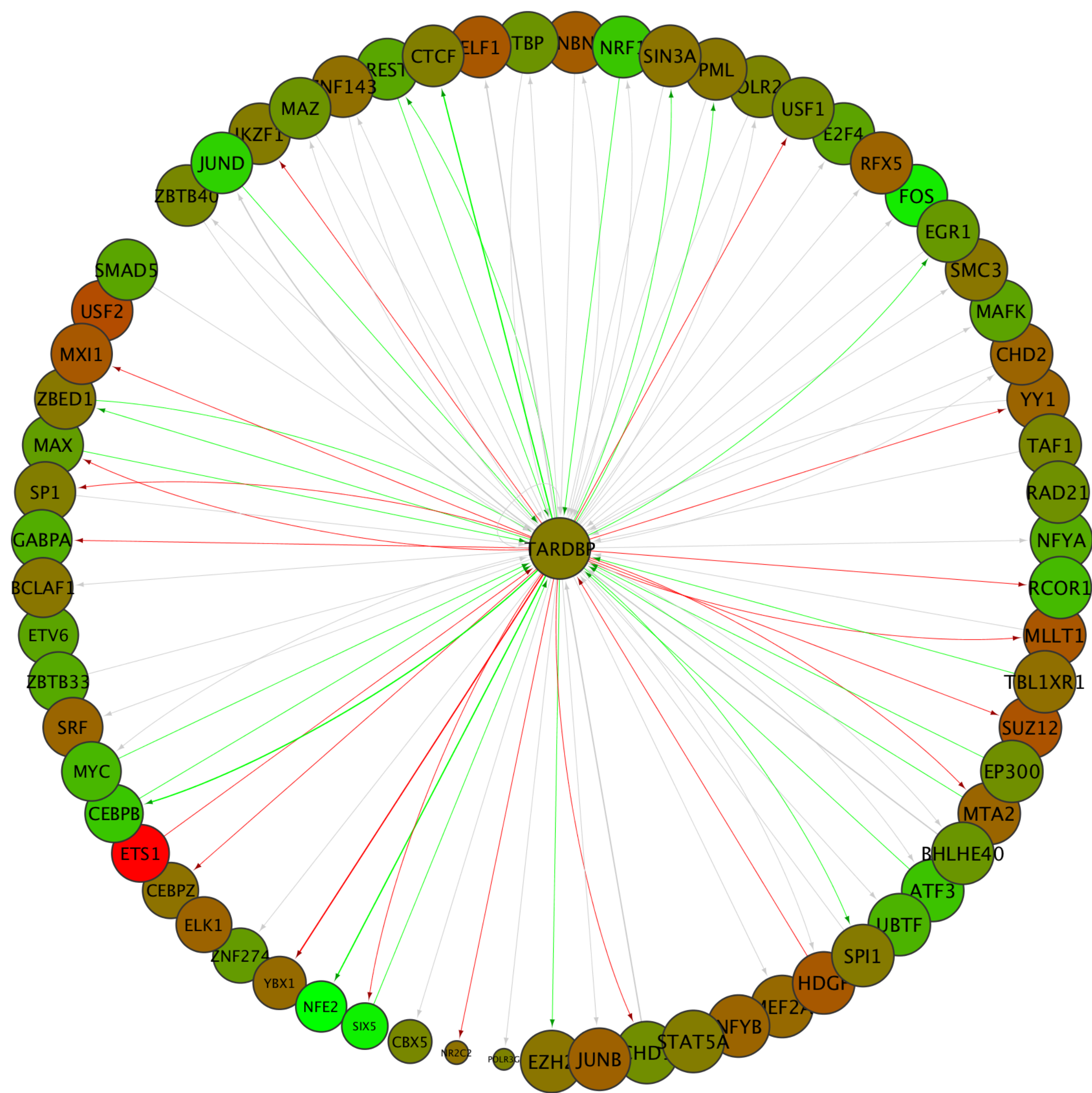
- ETS1**
- USF2**
- SUZ12**
- MLLT1**
- ELF1**

out >> in
activated
regulator



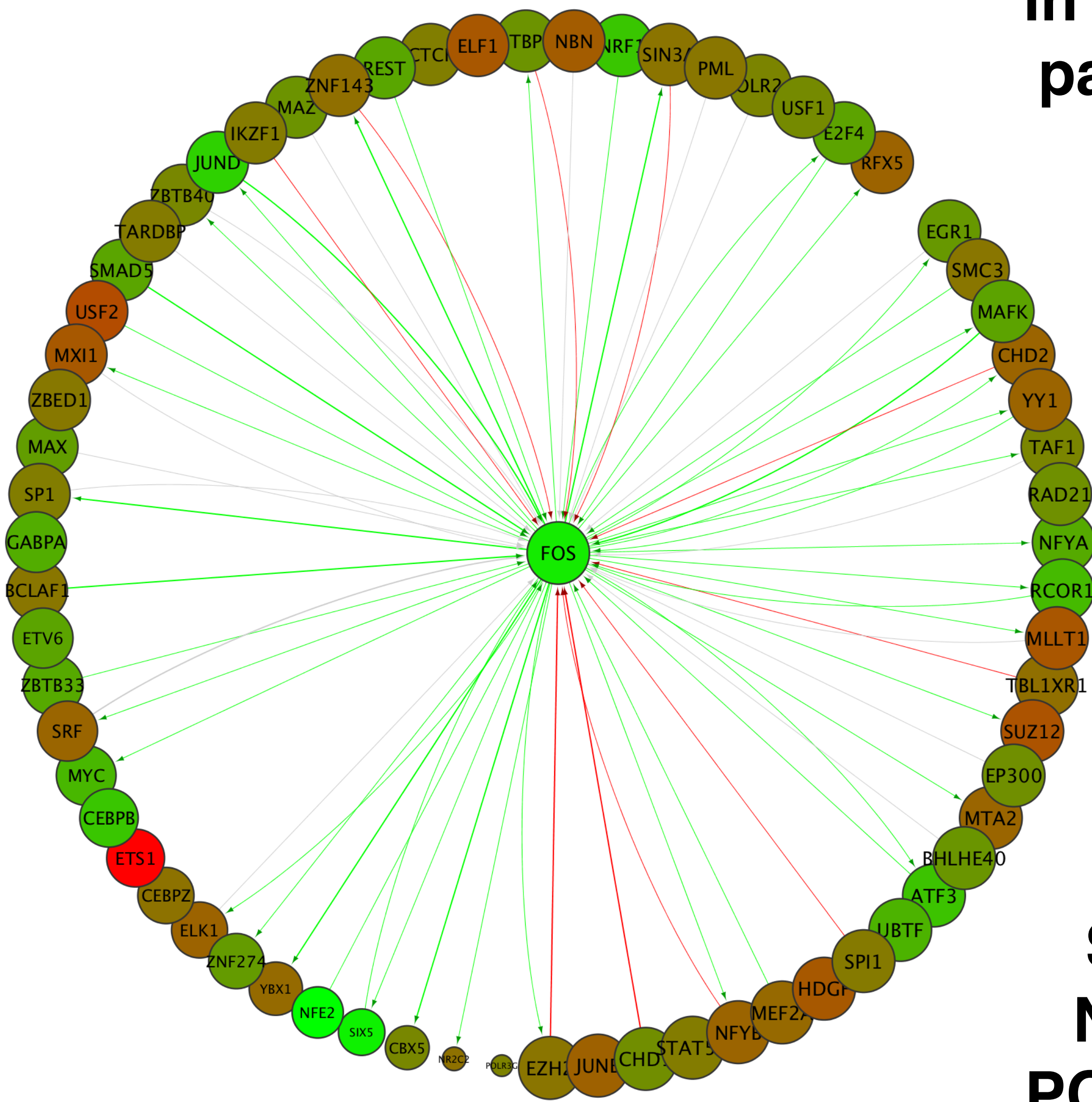
RCOR1
JUND
REST
ZBTB33
MAX



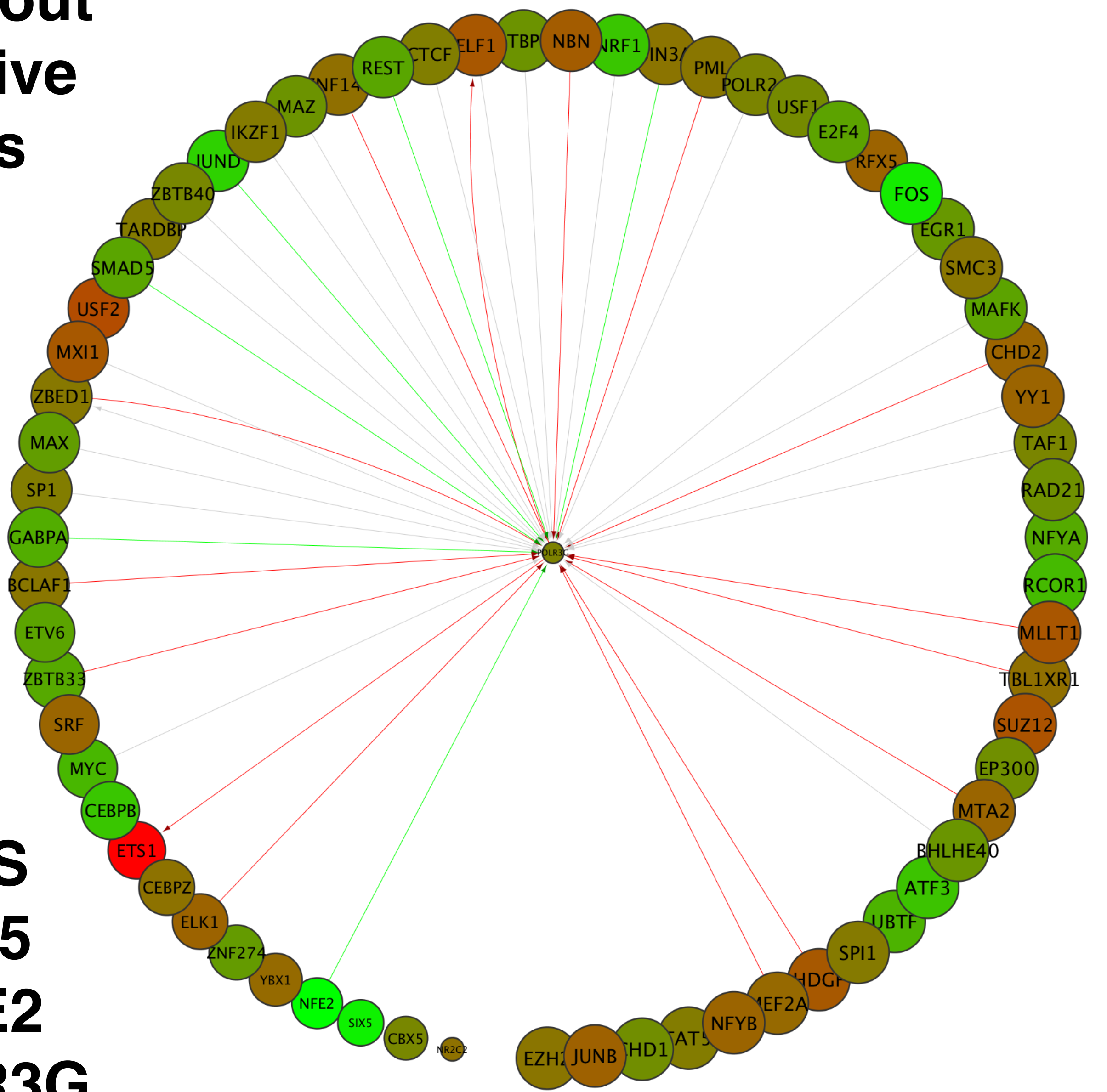


out >> in
deactivated
regulator
TARDBP
MLLT1
SRF
HDGF
SPI1

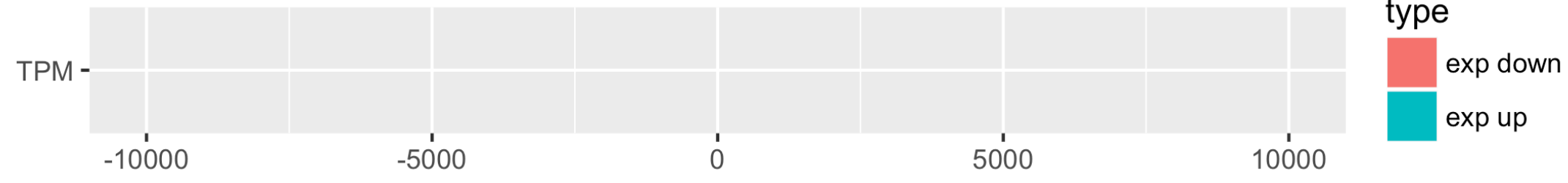
in >> out
passive
loss



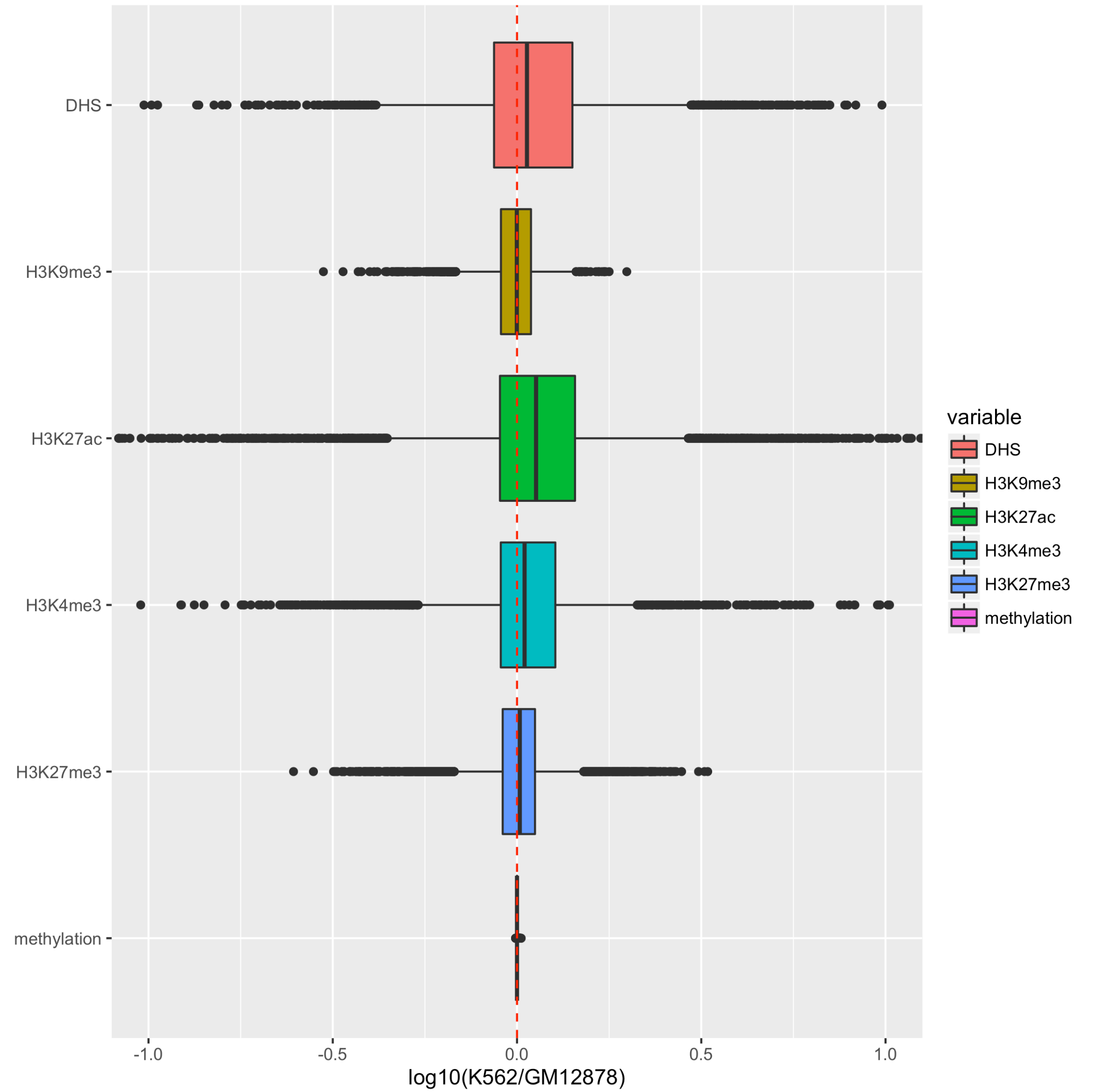
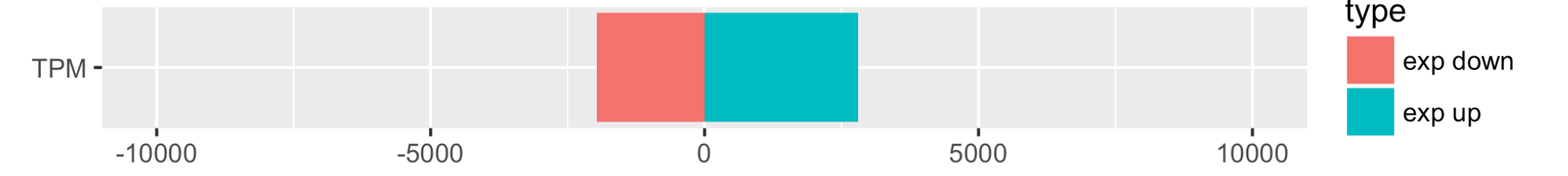
FOS
SIX5
NFE2
POLR3G
ETV6



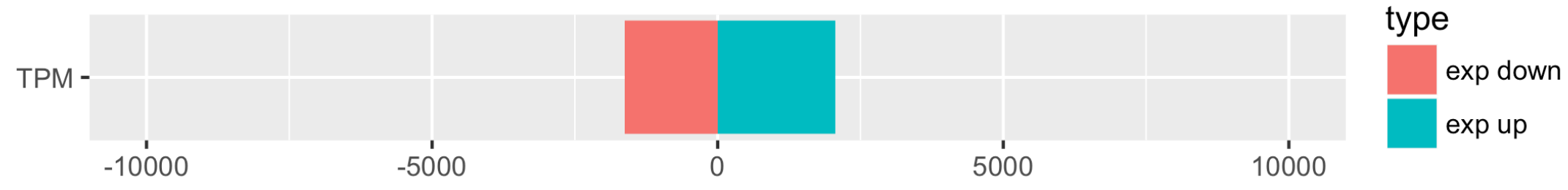
NFE2 Loss



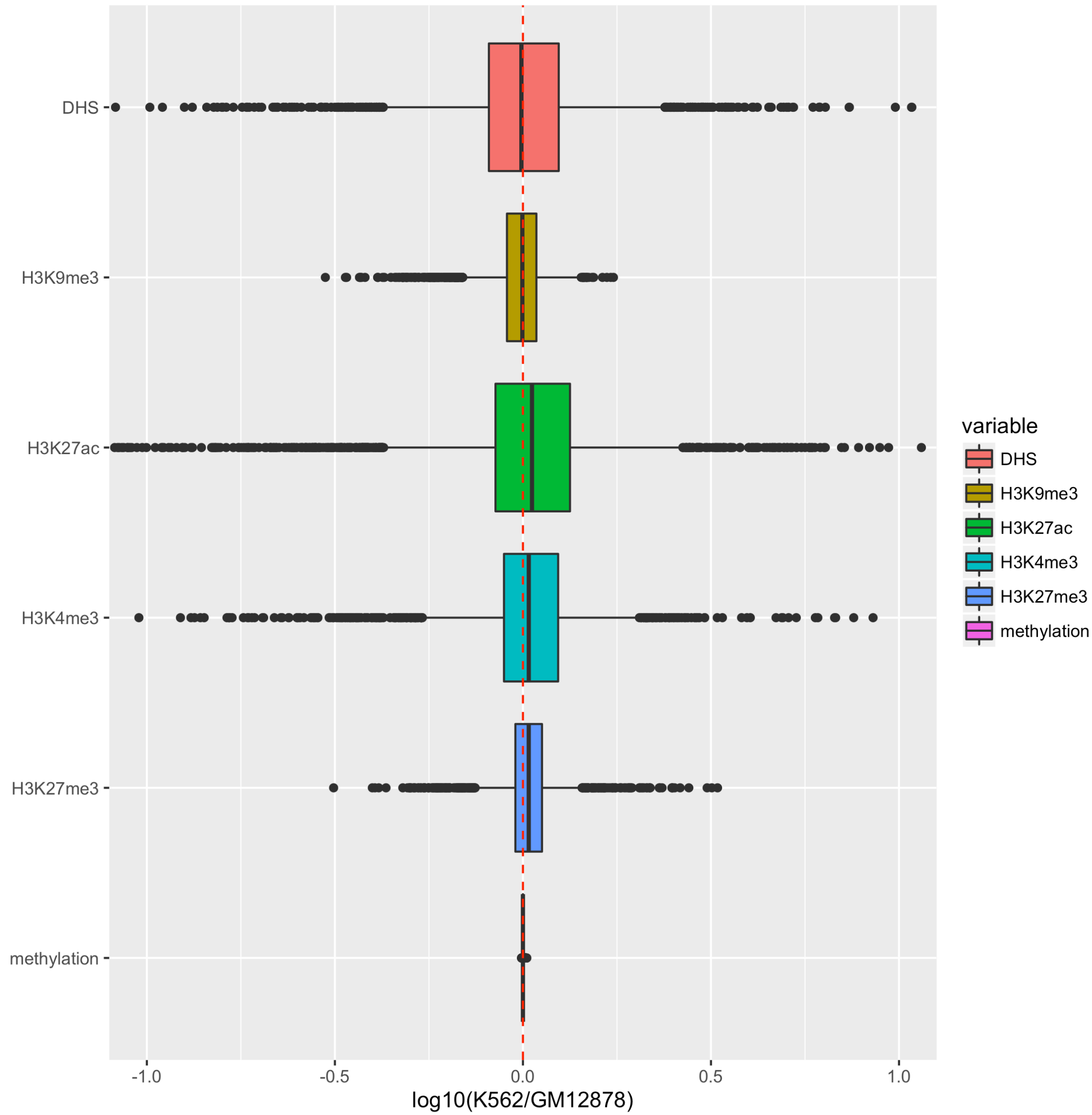
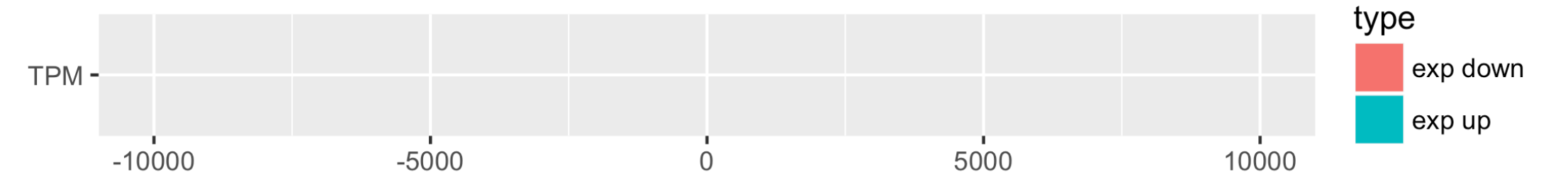
NFE2 Gain



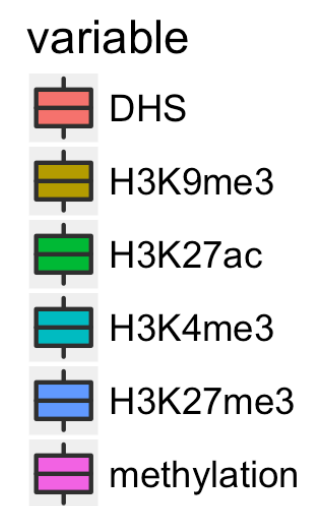
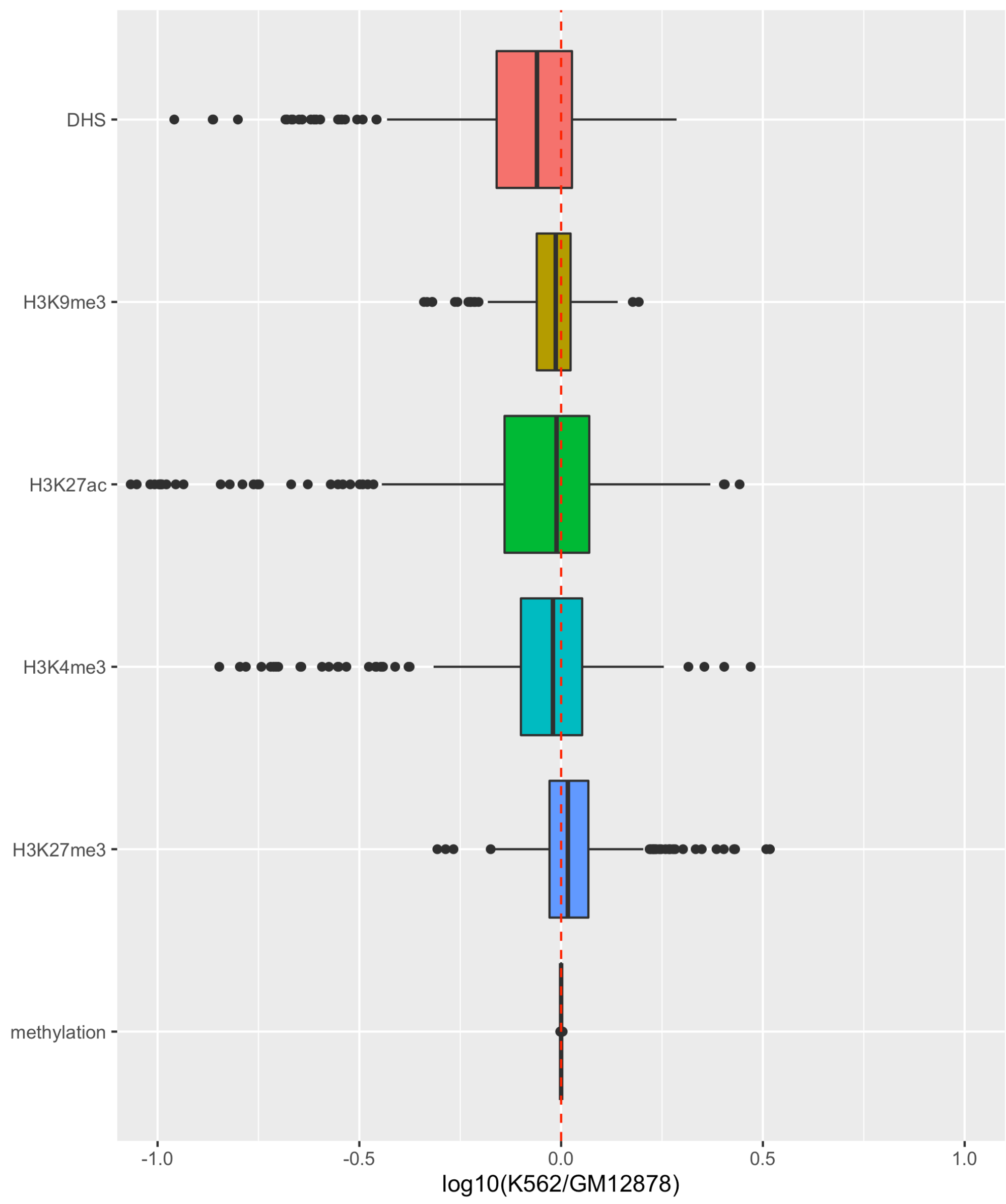
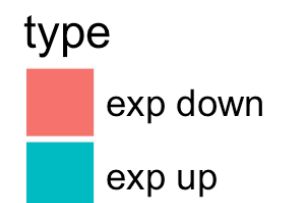
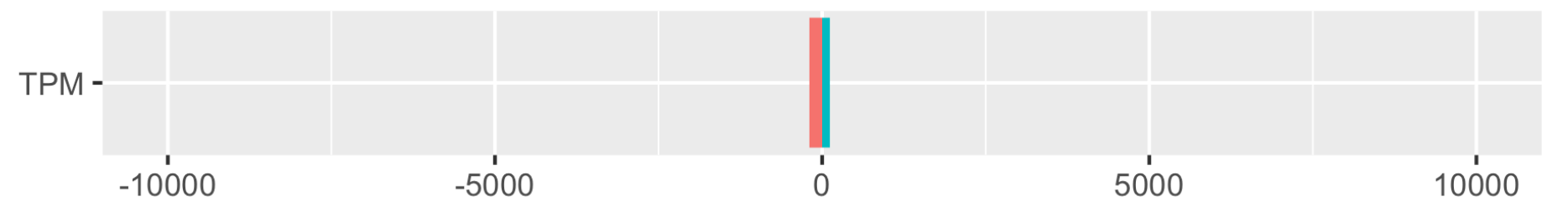
ETS1 Loss



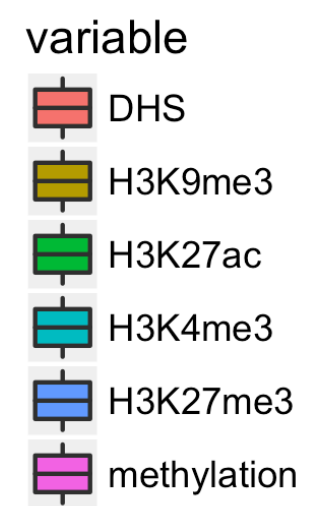
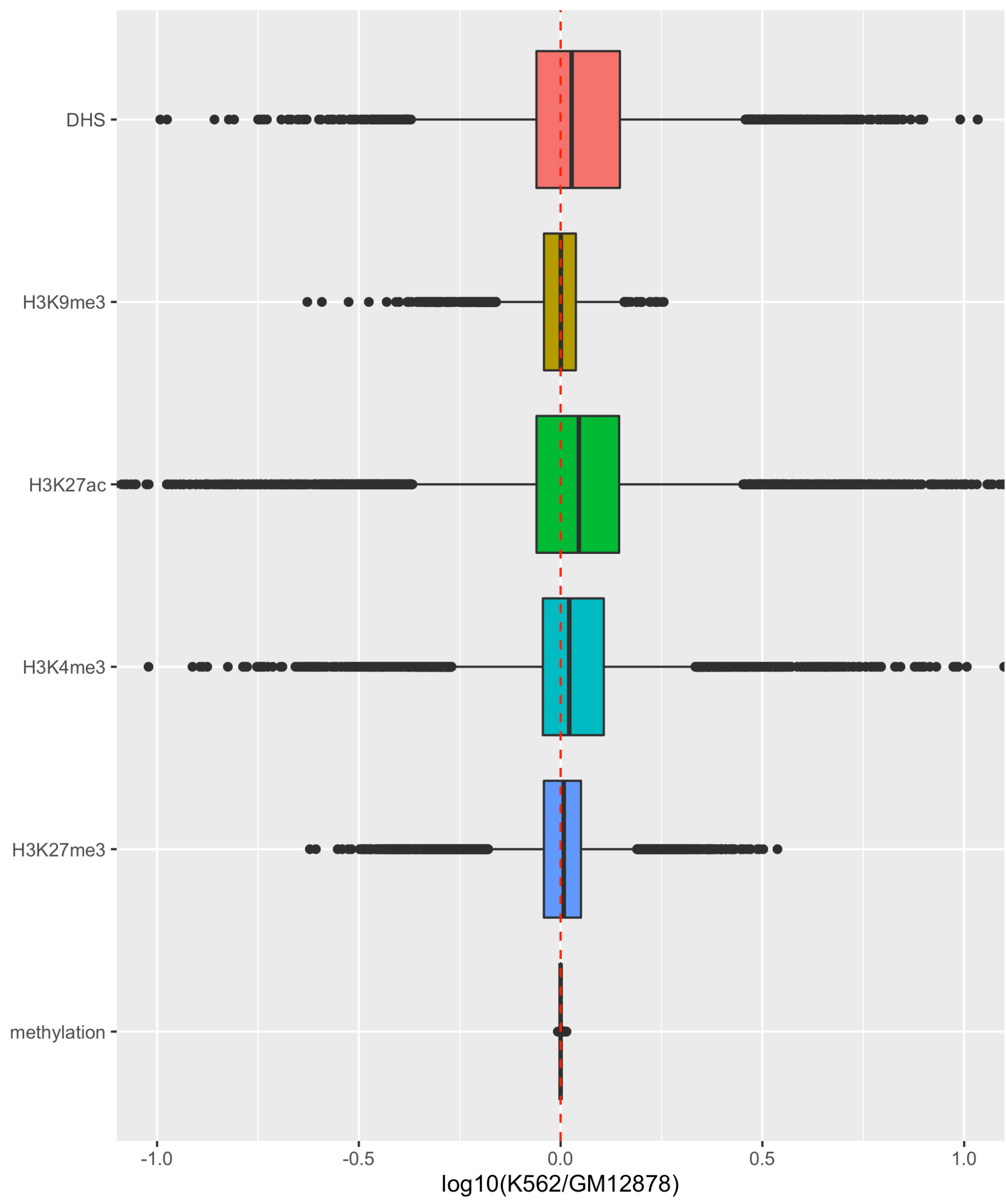
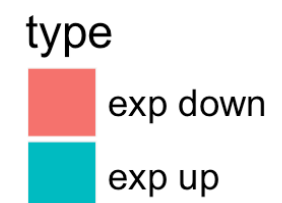
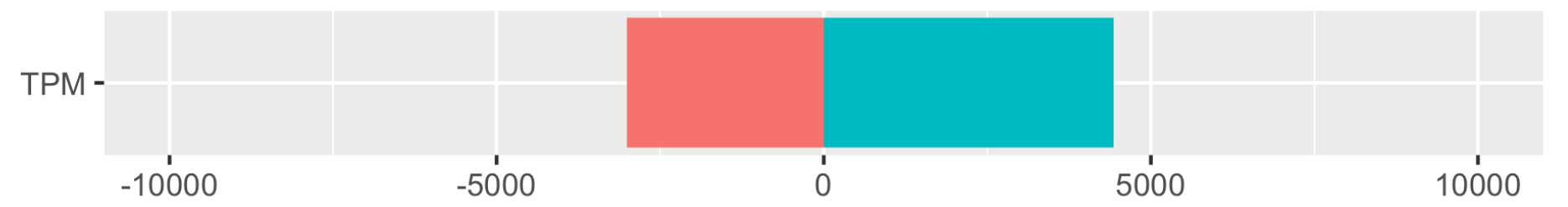
ETS1 Gain



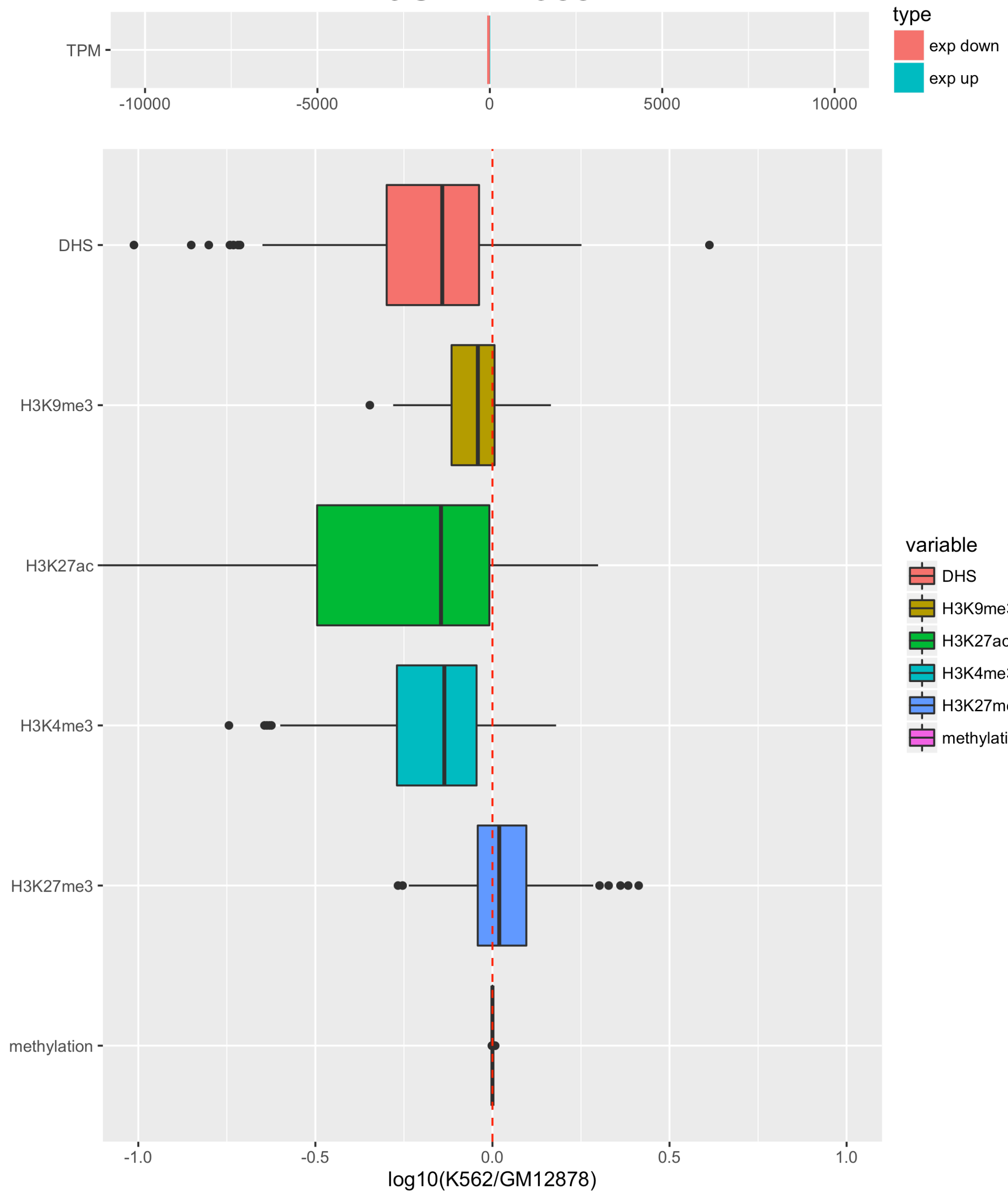
RCOR1 Loss



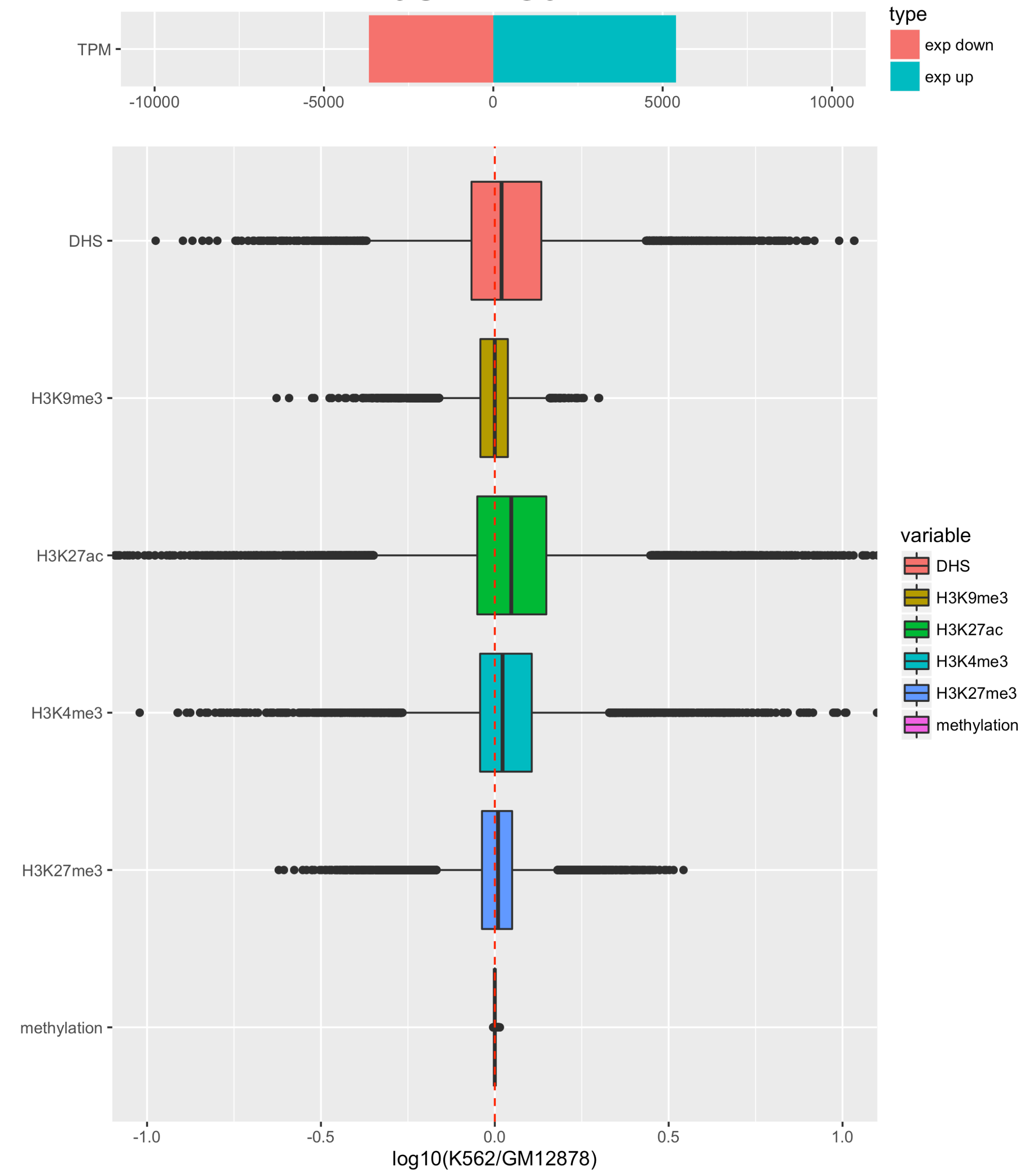
RCOR1 Gain



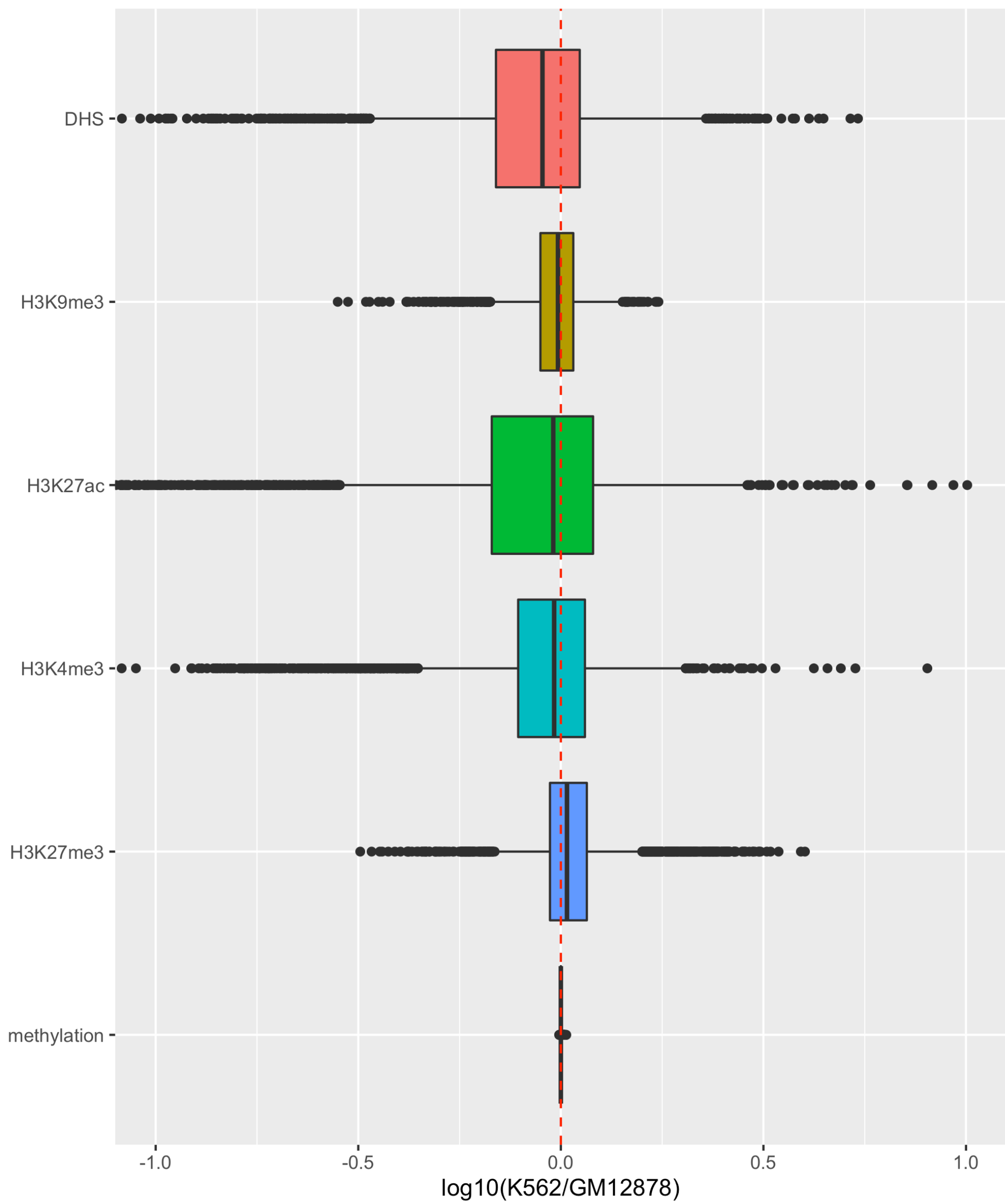
JUND Loss



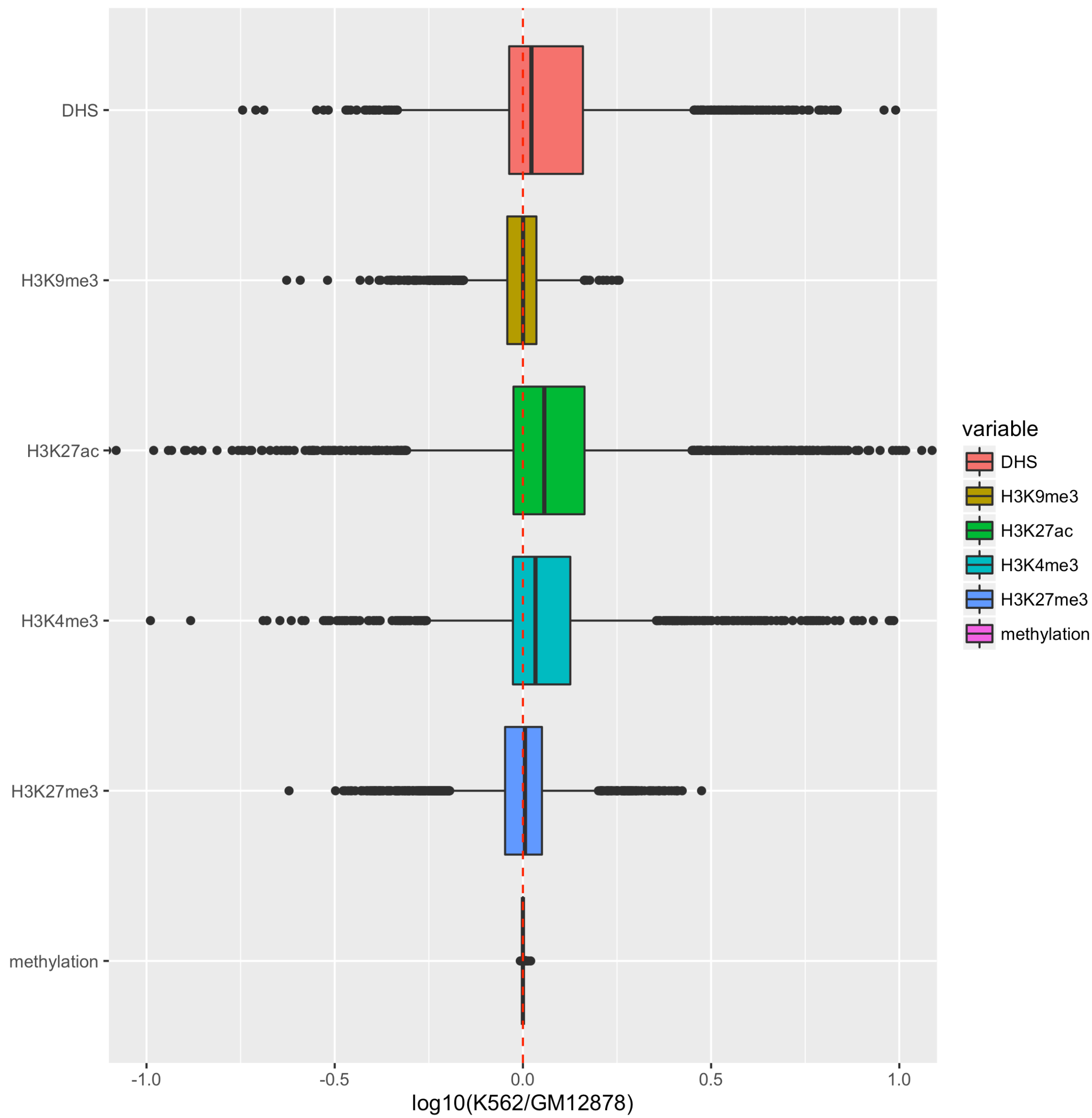
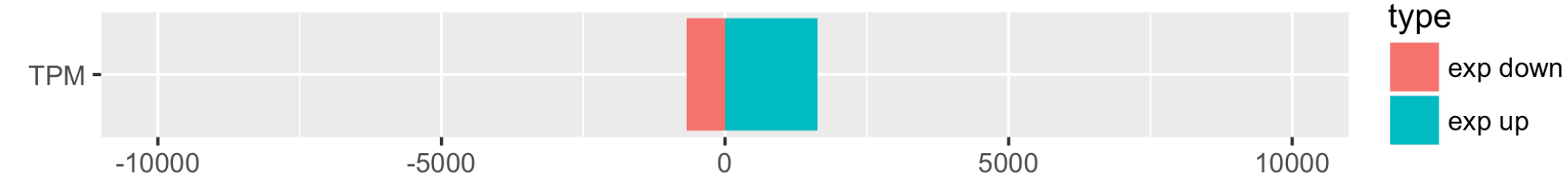
JUND Gain



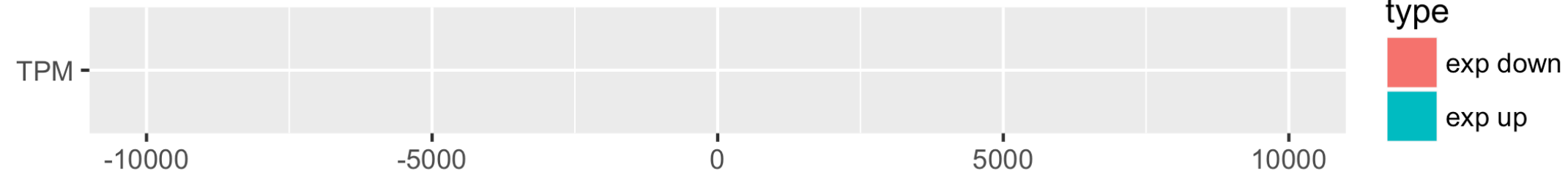
TARDBP Loss



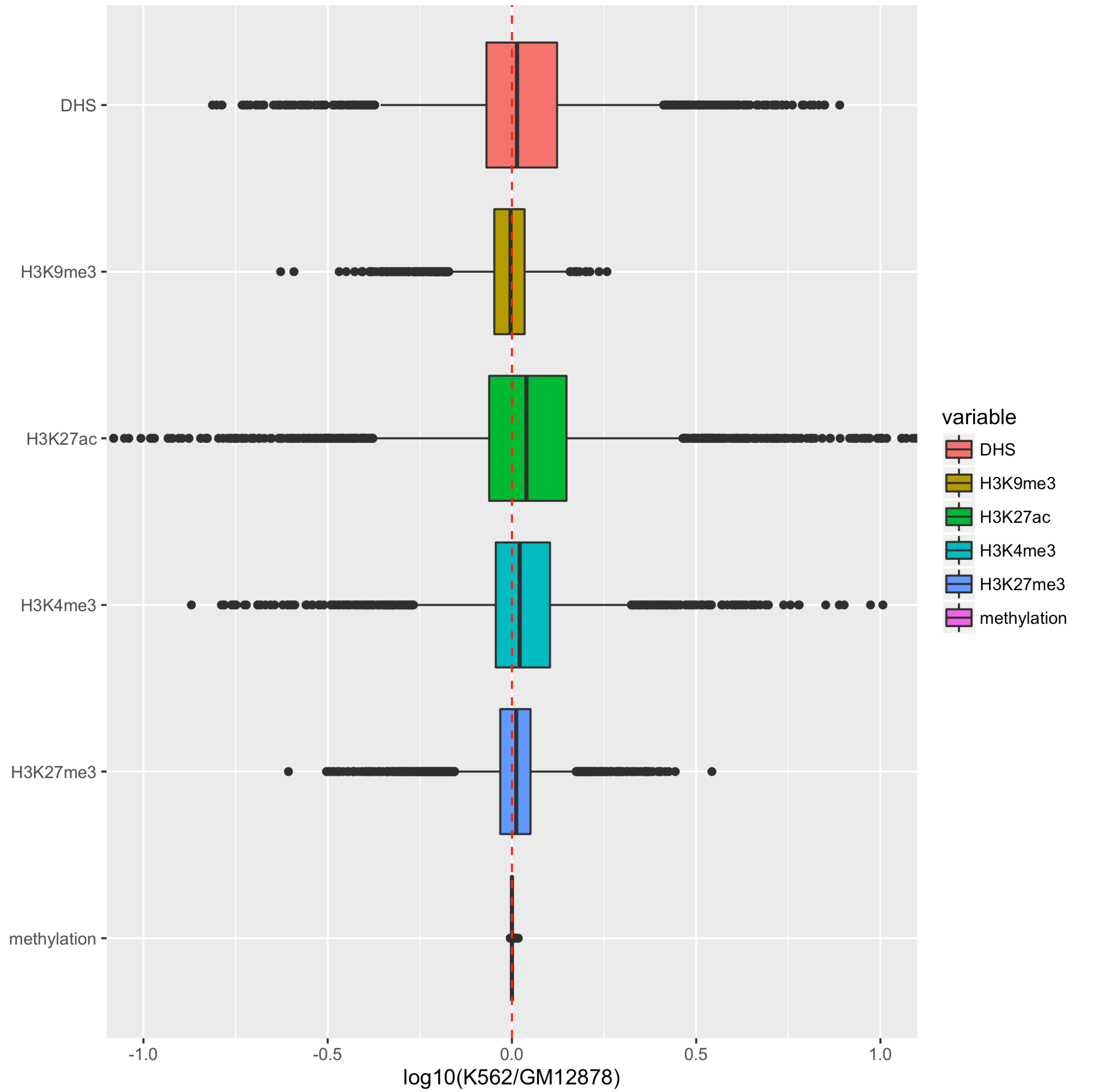
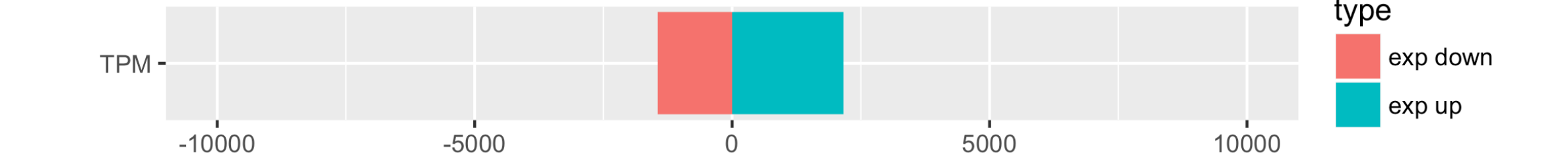
TARDBP Gain



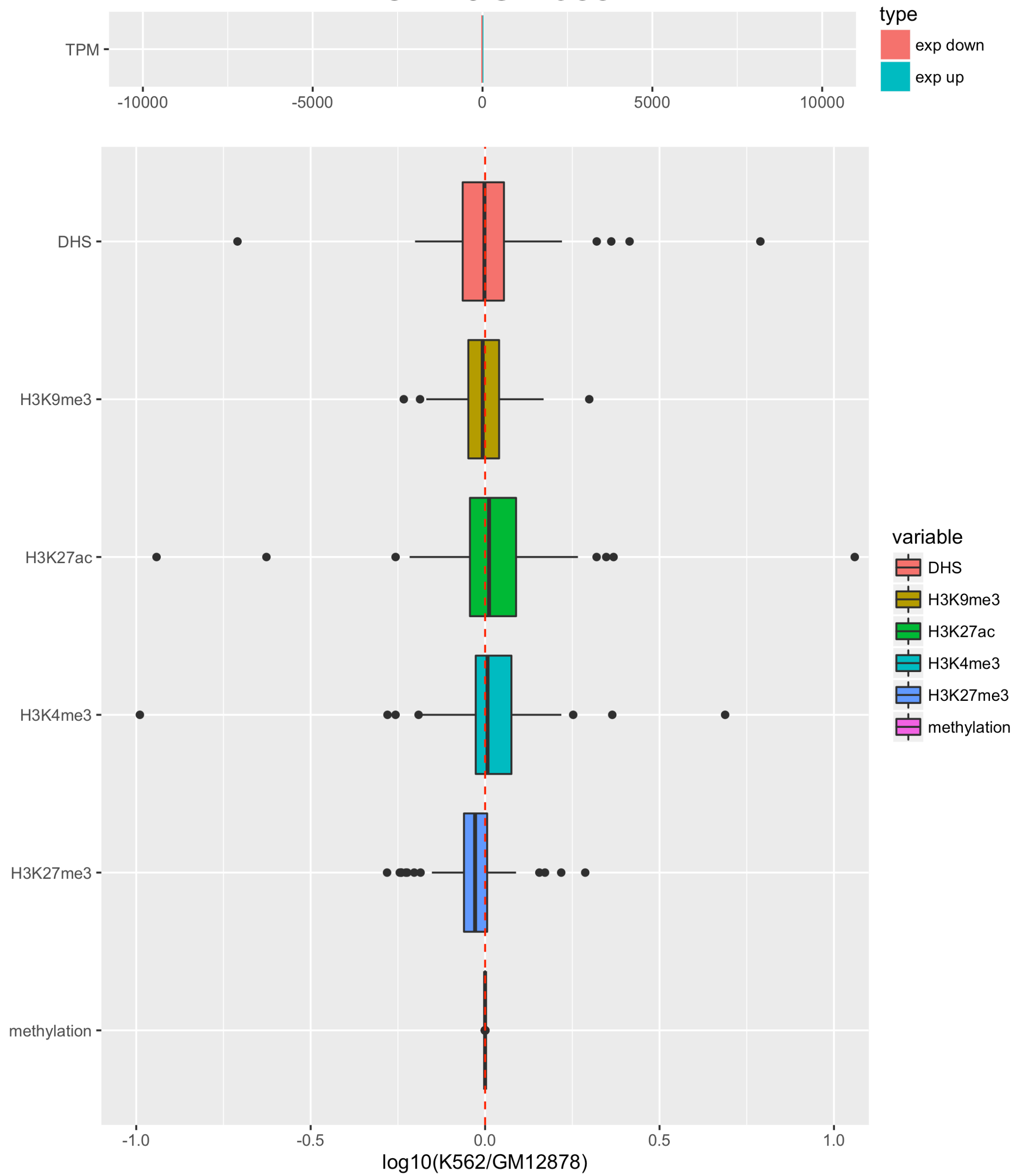
FOS Loss



FOS Gain



POLR3G Loss



POLR3G Gain

