


```
# compare predicted probability
predict.prob <- predict(model.logit.L1,newx=xvars,type='response')
boxplot(split(predict.prob,high.AFB1))
```

4. Which probes have nonzero coefficients in the LASSO logistic regression? Can you find the UCSC gene names overlapping these probes? (HINT: you need to perform matching with the appropriate column in `anno` data frame. Once you located the implicated genes, you can learn about the genes by looking up from NCBI Gene Card (<http://www.ncbi.nlm.nih.gov/gene/>).
5. When you finished don't forget to save the commands you have been executing and the workspace containing all your works, but first you need to remove the three datasets `data`, `anno`, `info` so that the workspace size is not overwhelming. The following commands can be used:

```
# remove big datasets
rm(data);rm(anno);rm(info)
# save commands
filename1 <- paste('Lab4_', 'YOURNAME', '.R', sep='')
savehistory(filename1)
# save workspace
filename2 <- paste('Lab4_', 'YOURNAME', '.RData', sep='')
save.image(filename2)
```