## HWsec4

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Q13: Read this file into R and determine the sample size for each genotype and their corresponding median expression levels for each of these genotypes.

```
expr <- read.table("rs8067378_ENSG00000172057.6.txt")</pre>
head(expr)
##
      sample geno
## 1 HG00367 A/G 28.96038
## 2 NA20768 A/G 20.24449
## 3 HG00361 A/A 31.32628
## 4 HG00135 A/A 34.11169
## 5 NA18870 G/G 18.25141
## 6 NA11993 A/A 32.89721
nrow(expr)
## [1] 462
table(expr$geno)
##
## A/A A/G G/G
## 108 233 121
library(ggplot2)
```

Q14: Generate a boxplot with a box per genotype, what could you infer from the relative expression value between A/A and G/G displayed in this plot? Does the SNP effect the expression of ORMDL3?

```
ggplot(expr)+ aes(x=geno, exp, fill=geno) +
geom_boxplot(notch = TRUE)
```

