

# Evaluate testing data (survival) - XGBoost

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Label: os\_time

```
## user input
project_home <- "~/EVE/examples"
project_name <- "xgboost_survival_outCV_test"
```

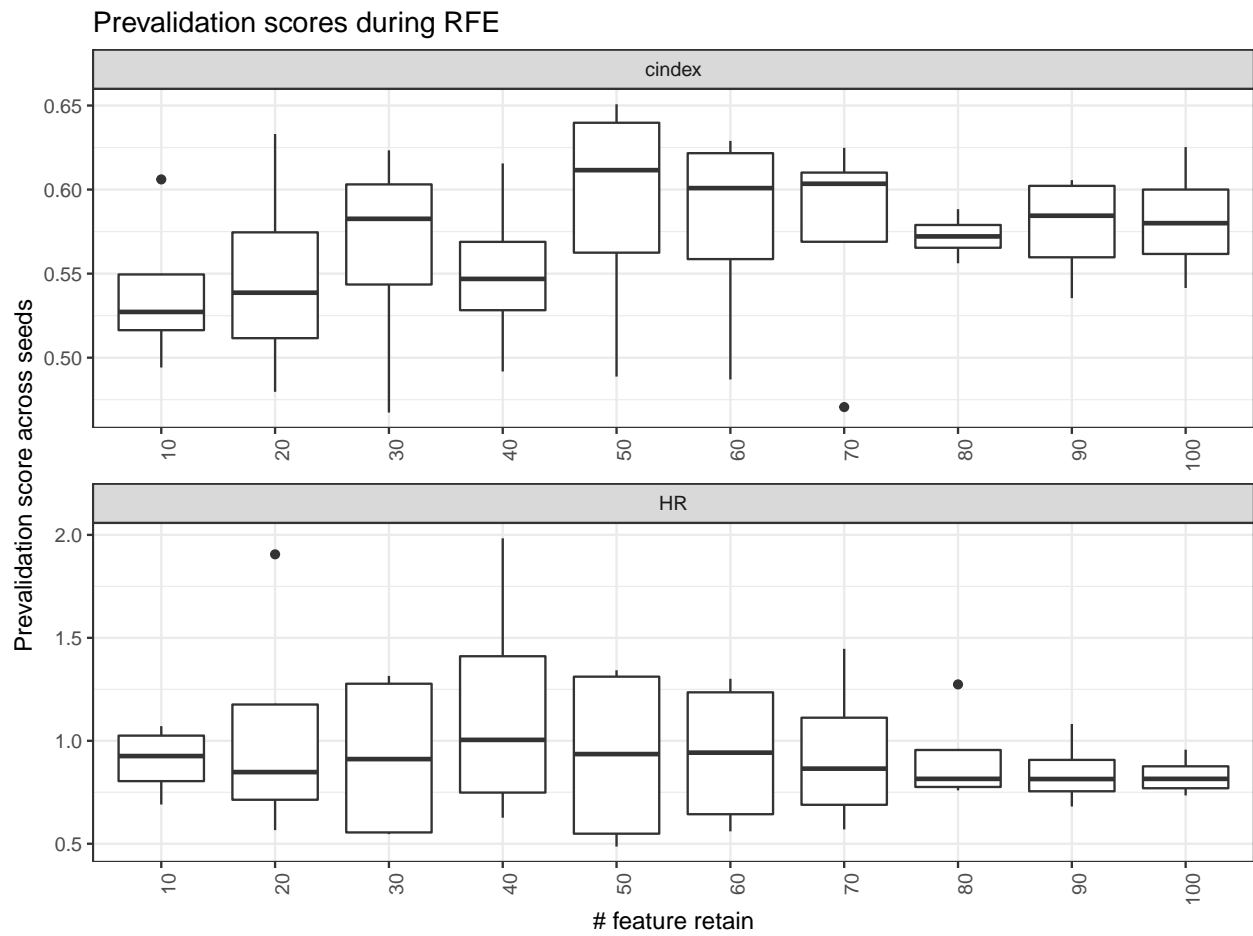
## 0. Load Data

300 of samples were used

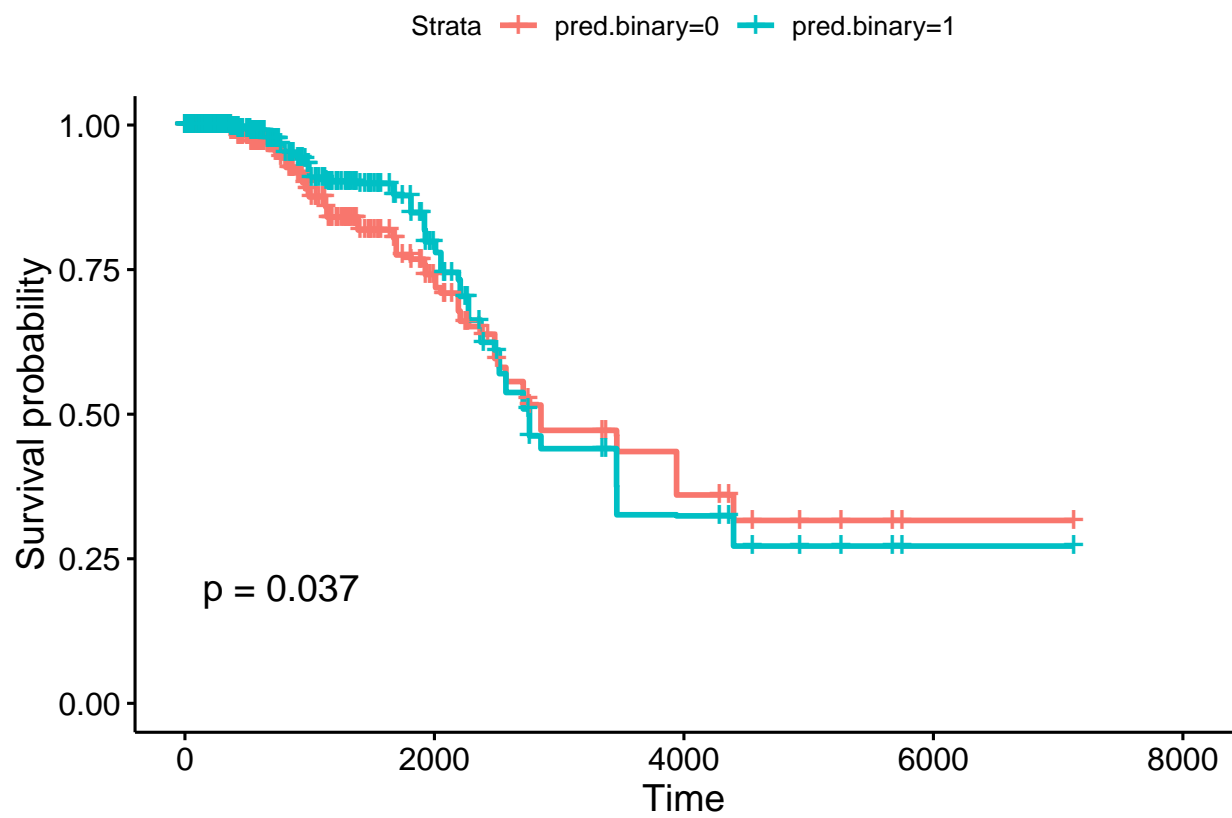
100 of full features

4 runs, each run contains 3 CVs.

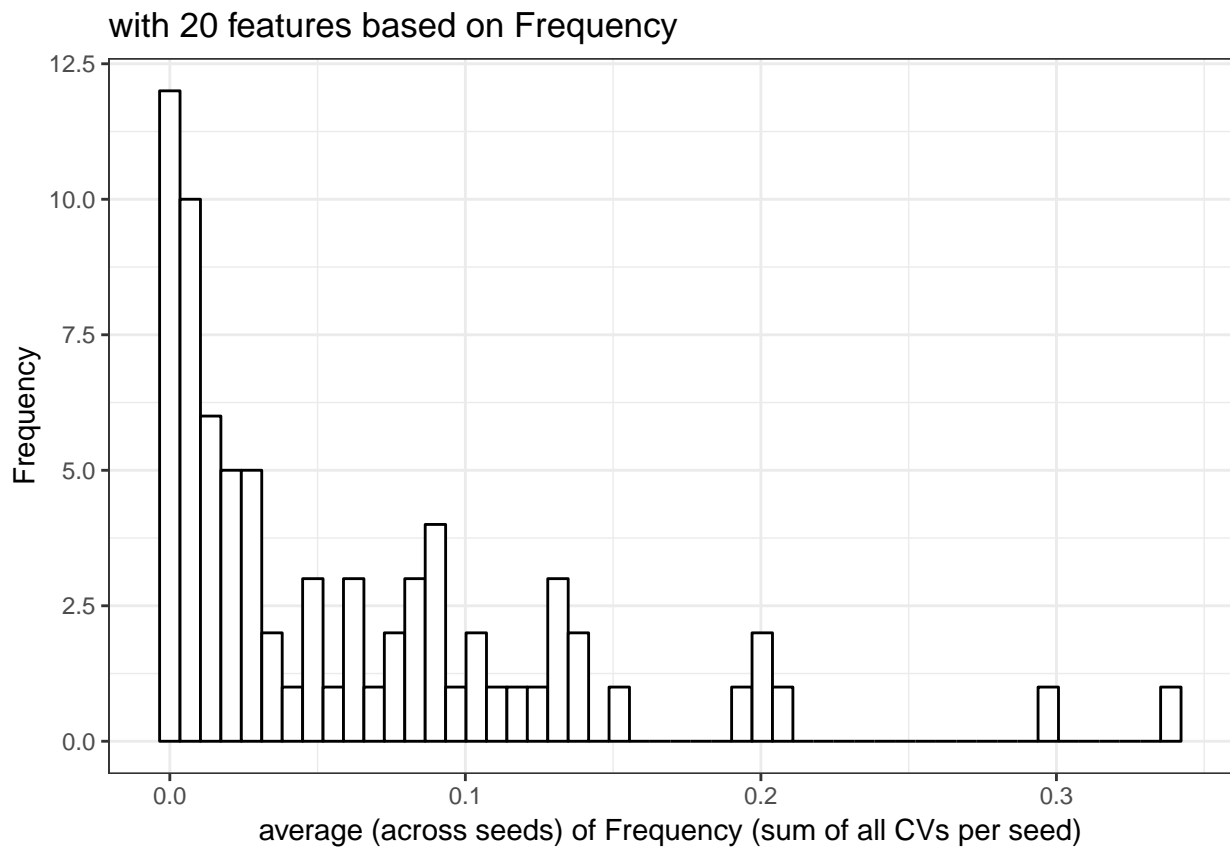
## 1. Scores



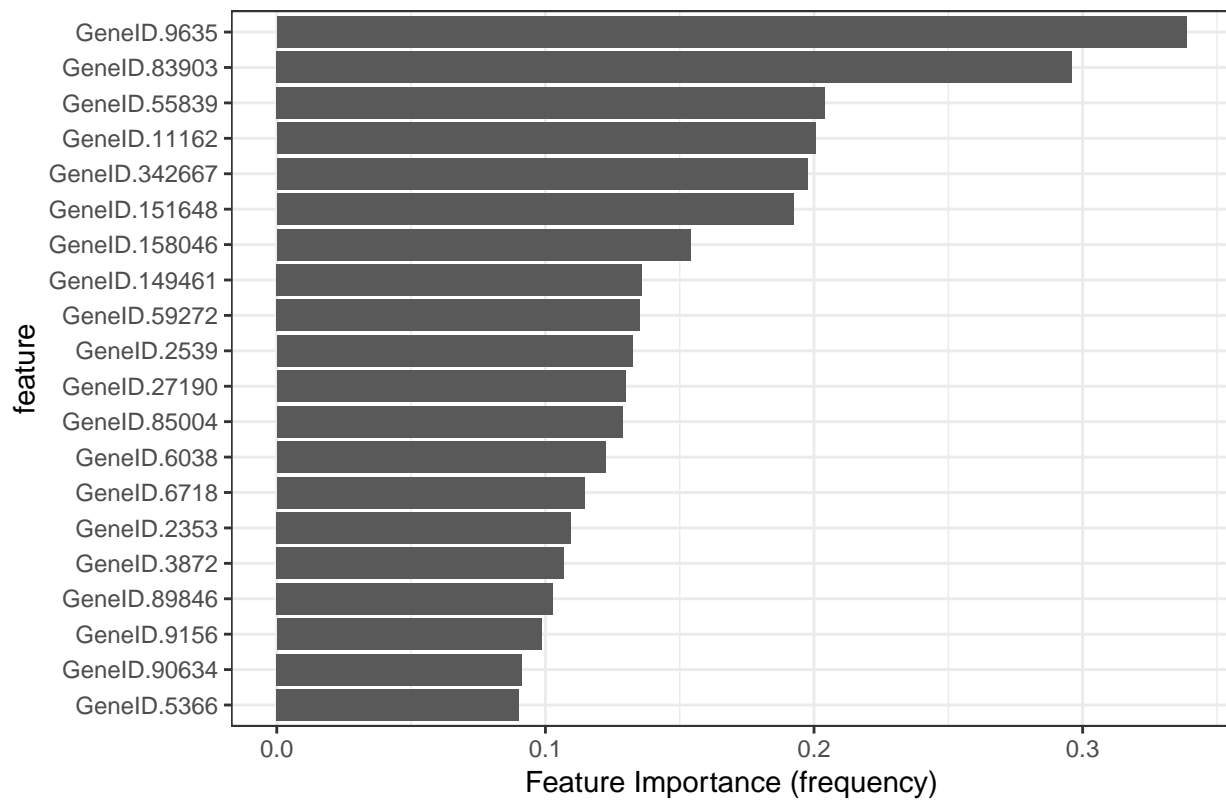
The following plot is to quickly see how well the prediction can separate long and short survivor.



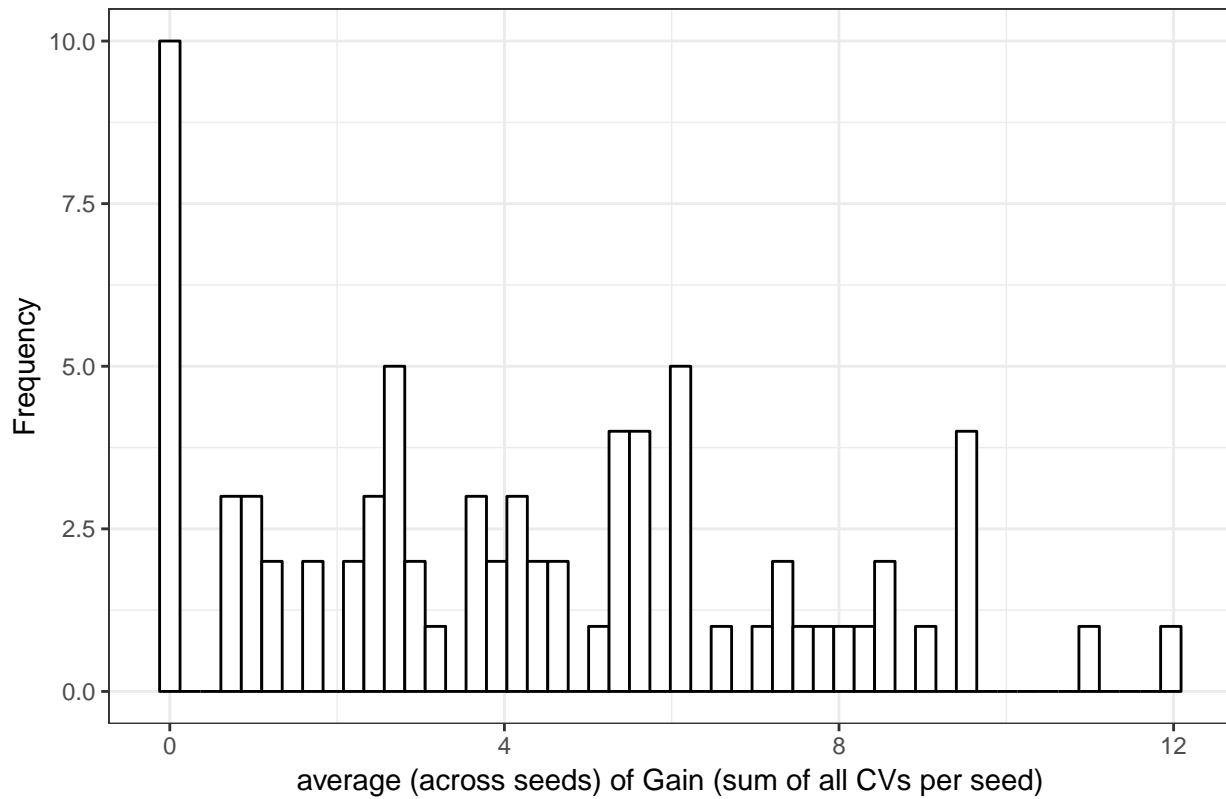
## 2. Important Features



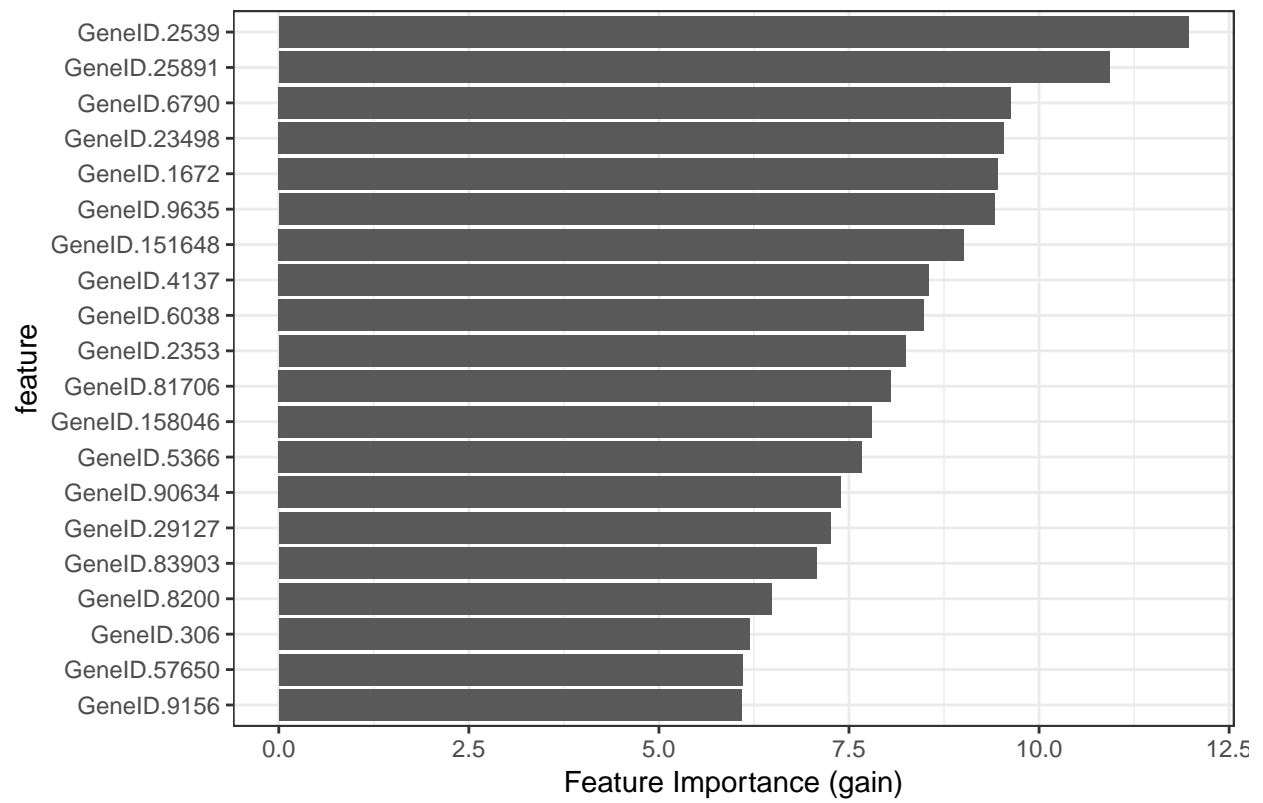
Top 20 features at 20 feature set based on Frequency



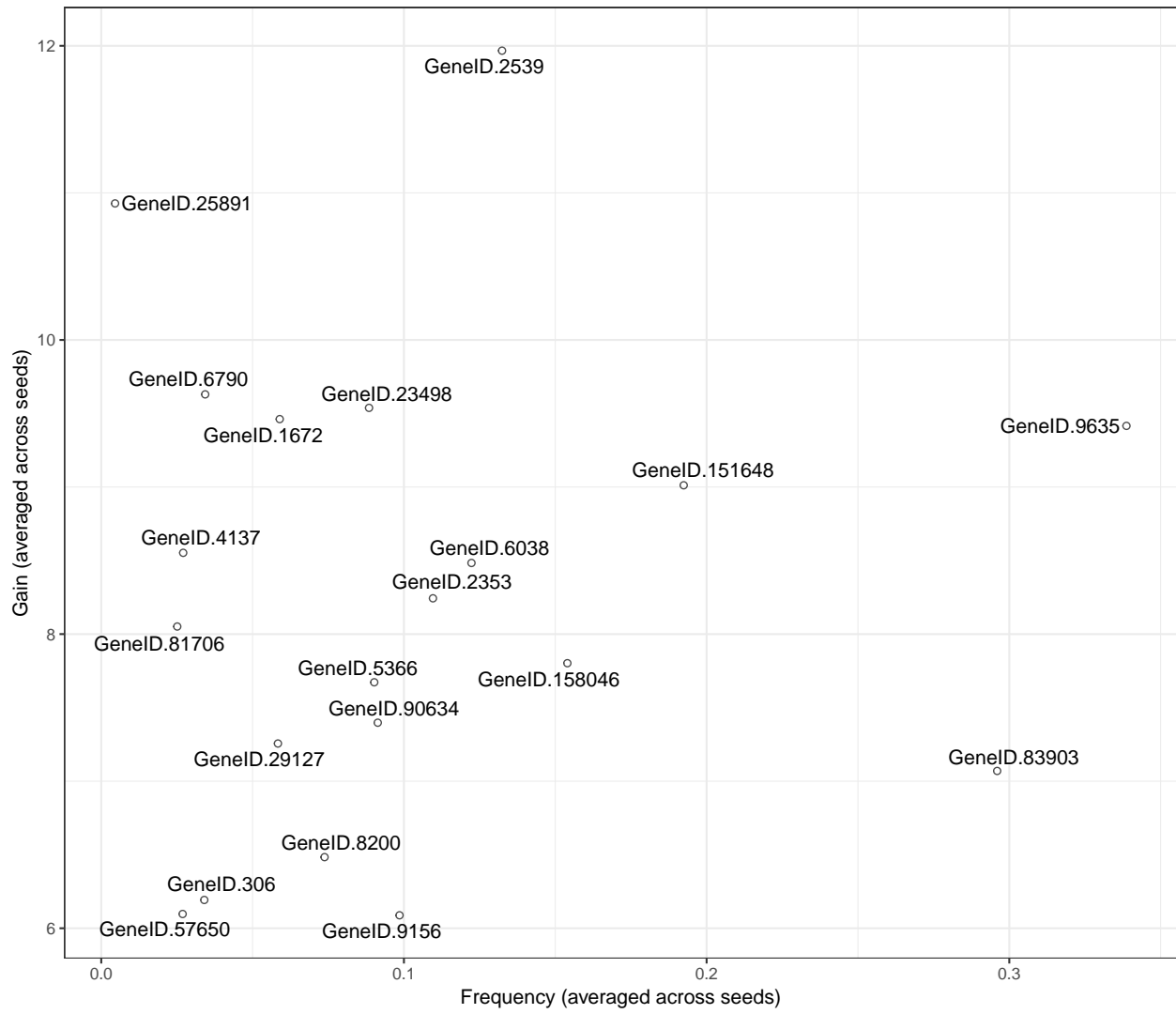
with 20 features based on Gain



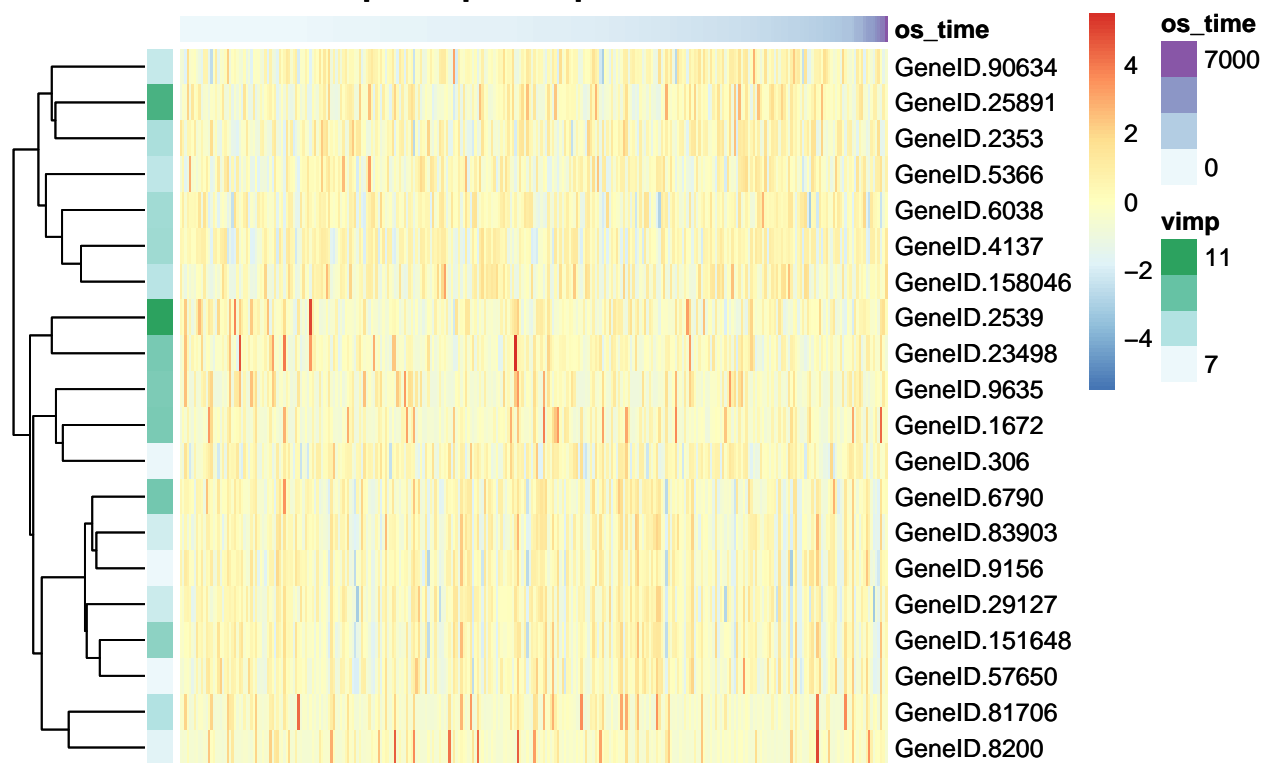
Top 20 features at 20 feature set based on Gain



Top 20 features at 20 feature set



Heatmap of top 20 important features





### 3. Hyper-parameters

#### Hyperparameter Tuning in each CV

each box represents different seed (maximum 5 seeds are shown)

