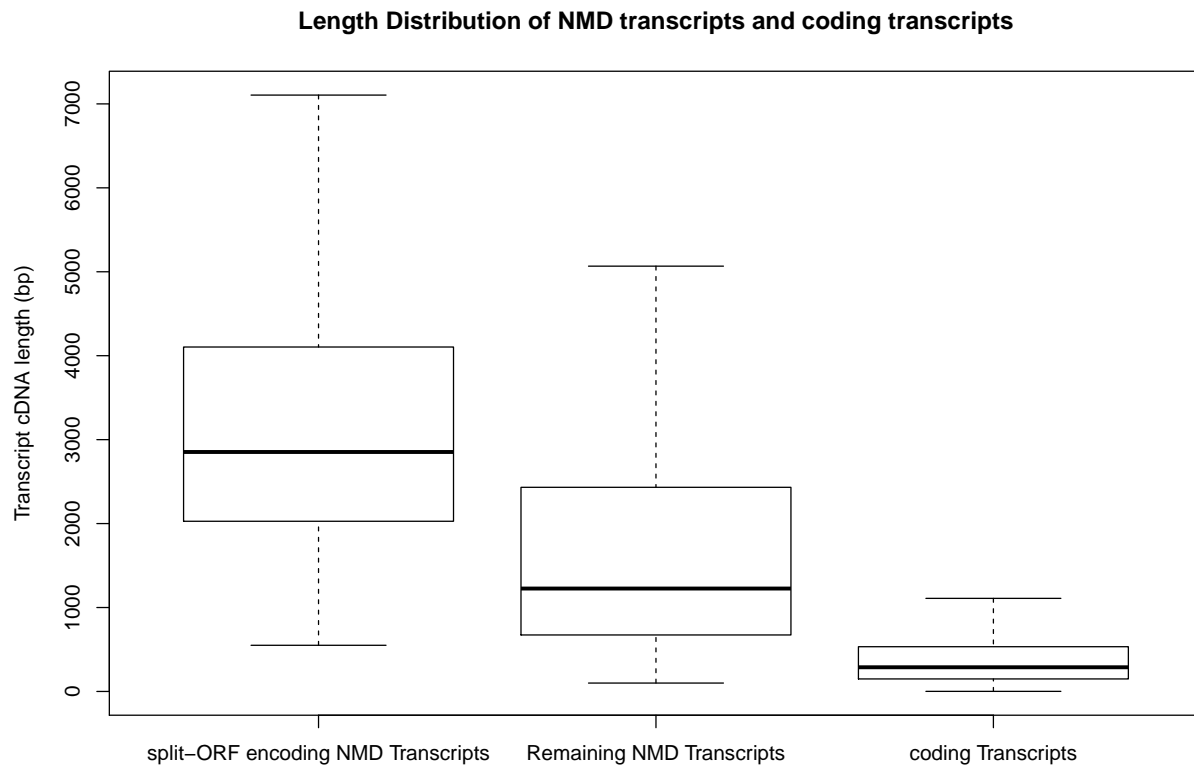


TranscriptStatistics

Human

Transcript length and Methionine density

Length Distribution and two sided t-test between split-ORF encoding NMD transcripts and coding transcripts



```
## T-test between split-ORF encoding and remaining NMD transcripts:
```

```
##
```

```
## Welch Two Sample t-test
```

```
##
```

```
## data: comparelengths[[1]] and comparelengths[[2]]
```

```
## t = 26.415, df = 1904.2, p-value < 2.2e-16
```

```
## alternative hypothesis: true difference in means is not equal to 0
```

```

## 95 percent confidence interval:
## 1394.242 1617.885
## sample estimates:
## mean of x mean of y
## 3377.117 1871.053

## T-test between split-ORF encoding and coding transcripts:

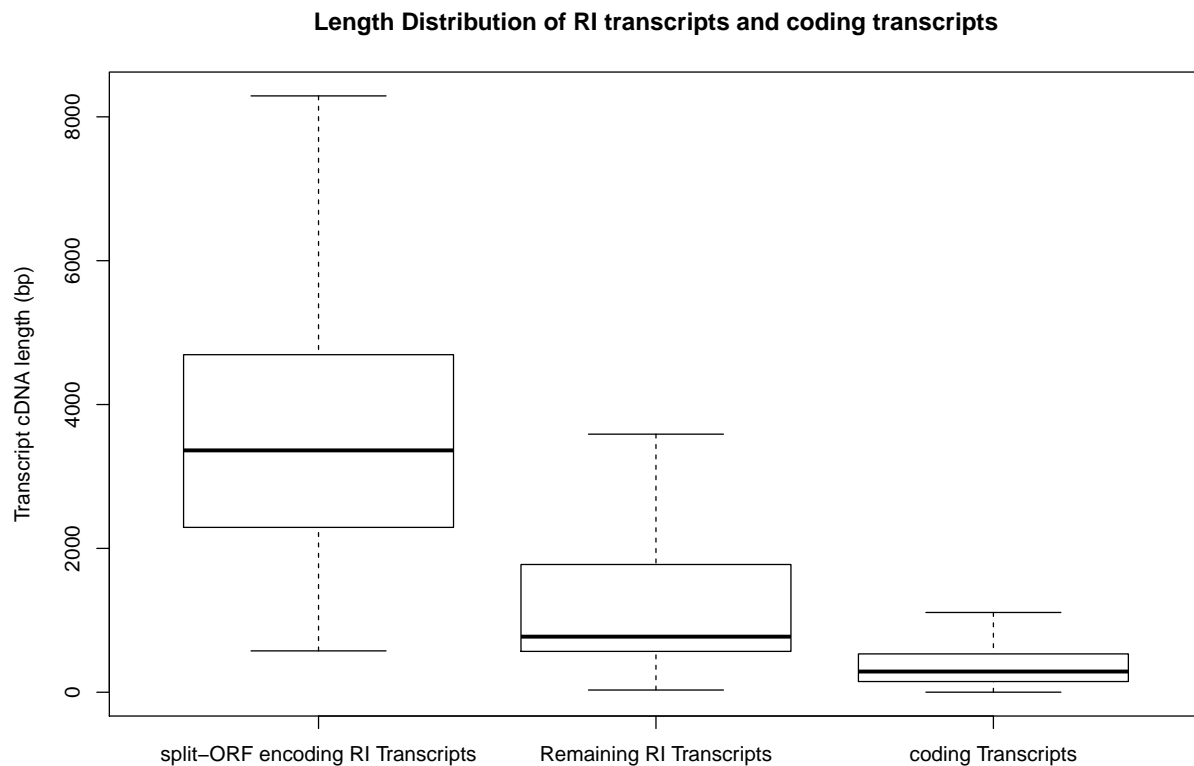
##
## Welch Two Sample t-test
##
## data: comparelengths[[1]] and comparelengths[[3]]
## t = 53.451, df = 1674.2, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 2842.503 3059.059
## sample estimates:
## mean of x mean of y
## 3377.1166 426.3358

## T-test between remaining NMD transcripts and coding transcripts:

##
## Welch Two Sample t-test
##
## data: comparelengths[[2]] and comparelengths[[3]]
## t = 99.899, df = 18581, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 1416.371 1473.064
## sample estimates:
## mean of x mean of y
## 1871.0530 426.3358

```

Length Distribution and two sided t-test between split-ORF encoding RI transcripts and coding transcripts



T-test between split-ORF encoding and remaining RI transcripts:

```
##
## Welch Two Sample t-test
##
## data: RIcomparelengths[[1]] and RIcomparelengths[[2]]
## t = 52.318, df = 2015.9, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  2234.944 2409.024
## sample estimates:
## mean of x mean of y
##  3712.692 1390.708
```

T-test between split-ORF encoding and coding transcripts:

```
##
## Welch Two Sample t-test
##
## data: RIcomparelengths[[1]] and RIcomparelengths[[3]]
## t = 75.163, df = 1898.8, p-value < 2.2e-16
```

```

## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 3200.607 3372.106
## sample estimates:
## mean of x mean of y
## 3712.6922 426.3358

## T-test between the remaining RI transcripts and coding transcripts:

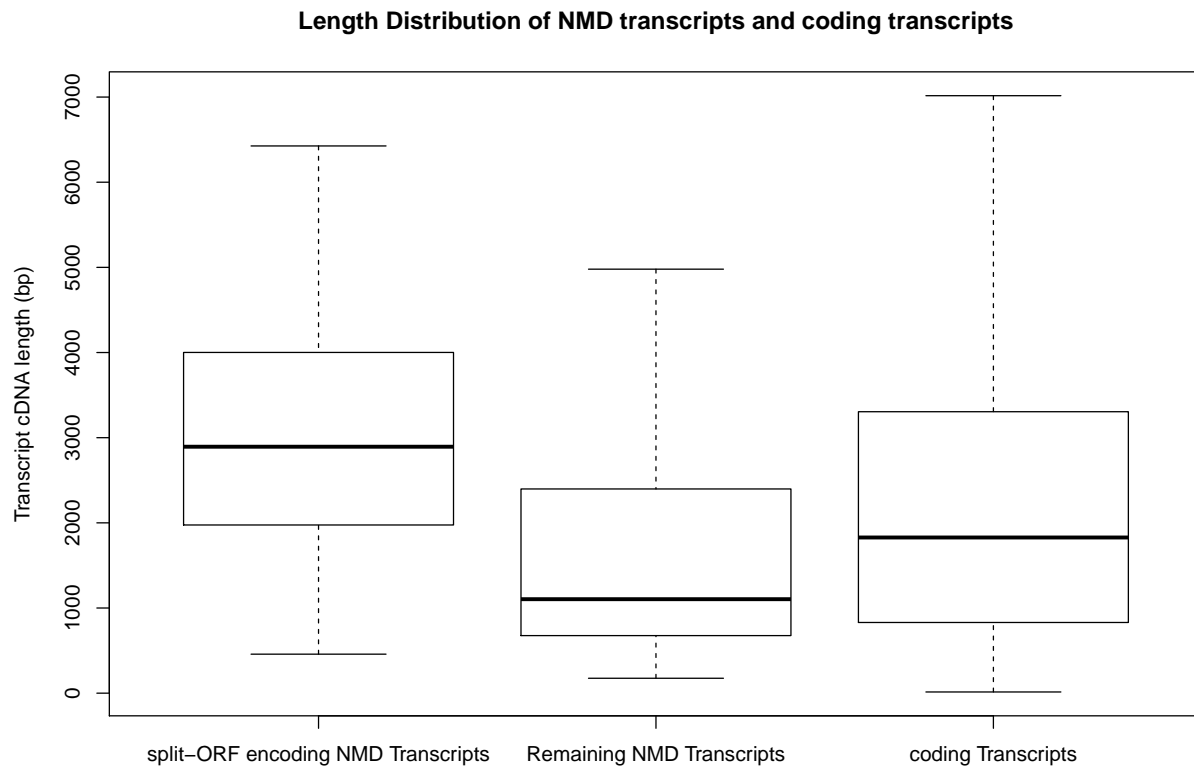
##
## Welch Two Sample t-test
##
## data: RIcomparelengths[[2]] and RIcomparelengths[[3]]
## t = 120.59, df = 35584, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 948.6974 980.0472
## sample estimates:
## mean of x mean of y
## 1390.7081 426.3358

```

Mouse

Transcript length and Methionine density

Length Distribution and two sided t-test between split-ORF encoding NMD transcripts and coding transcripts



```
## T-test between split-ORF encoding and remaining RI transcripts:
```

```
##  
## Welch Two Sample t-test  
##  
## data: comparelengthsMouse[[1]] and comparelengthsMouse[[2]]  
## t = 17.725, df = 576.29, p-value < 2.2e-16  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 1290.358 1611.958  
## sample estimates:  
## mean of x mean of y  
## 3179.973 1728.815
```

```
## T-test between split-ORF encoding and coding transcripts:
```

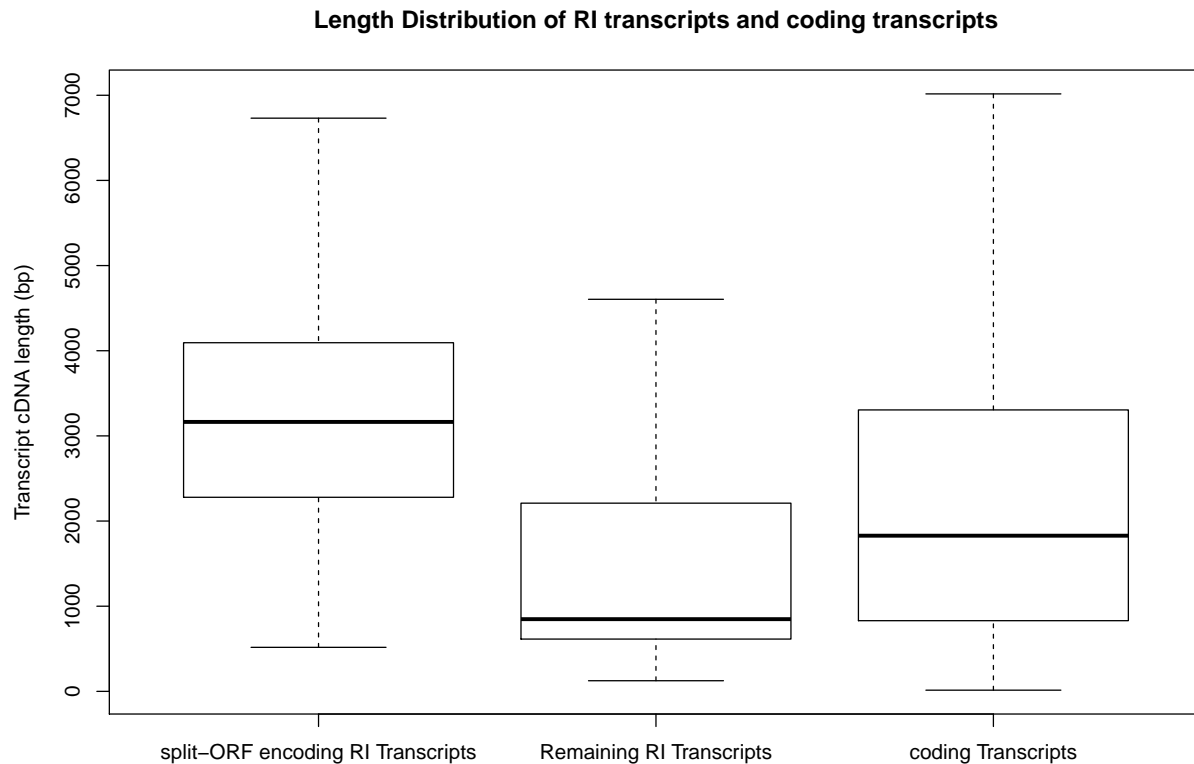
```
##
```

```
## Welch Two Sample t-test
##
## data:  comparelengthsMouse[[1]] and comparelengthsMouse[[3]]
## t = 9.2874, df = 531.59, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  587.5133 902.7227
## sample estimates:
## mean of x mean of y
##  3179.973  2434.855
```

```
## T-test remaining RI transcripts and coding transcripts:
```

```
##
## Welch Two Sample t-test
##
## data:  comparelengthsMouse[[2]] and comparelengthsMouse[[3]]
## t = -33.058, df = 10583, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -747.9047 -664.1756
## sample estimates:
## mean of x mean of y
##  1728.815  2434.855
```

Length Distribution and two sided t-test between split-ORF encoding RI transcripts and coding transcripts



T-test between split-ORF encoding and remaining RI transcripts:

```
##
## Welch Two Sample t-test
##
## data: RIcomparelengthsMouse[[1]] and RIcomparelengthsMouse[[2]]
## t = 34.658, df = 985.46, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  1686.849 1889.335
## sample estimates:
## mean of x mean of y
##  3298.603 1510.512
```

T-test between split-ORF encoding and coding transcripts:

```
##
## Welch Two Sample t-test
##
## data: RIcomparelengthsMouse[[1]] and RIcomparelengthsMouse[[3]]
## t = 16.708, df = 993.41, p-value < 2.2e-16
```

```

## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  762.3037 965.1929
## sample estimates:
## mean of x mean of y
##  3298.603  2434.855

## T-test remaining RI transcripts and coding transcripts:

##
## Welch Two Sample t-test
##
## data:  RIcomparelengthsMouse[[2]] and RIcomparelengthsMouse[[3]]
## t = -68.997, df = 65455, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -950.6013 -898.0854
## sample estimates:
## mean of x mean of y
##  1510.512  2434.855

```