

R Project

Code ▼

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```
library(readr)
res<- read.csv("res.csv", row.names = 1)
head(res)
```

GeneSymbol	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
<fctr>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
1 DDX11L1	0	NA	NA	NA	NA	NA
2 WASH7P	0	NA	NA	NA	NA	NA
3 MIR6859-3	0	NA	NA	NA	NA	NA
4 MIR6859-2	0	NA	NA	NA	NA	NA
5 MIR6859-1	0	NA	NA	NA	NA	NA
6 MIR6859-4	0	NA	NA	NA	NA	NA

6 rows

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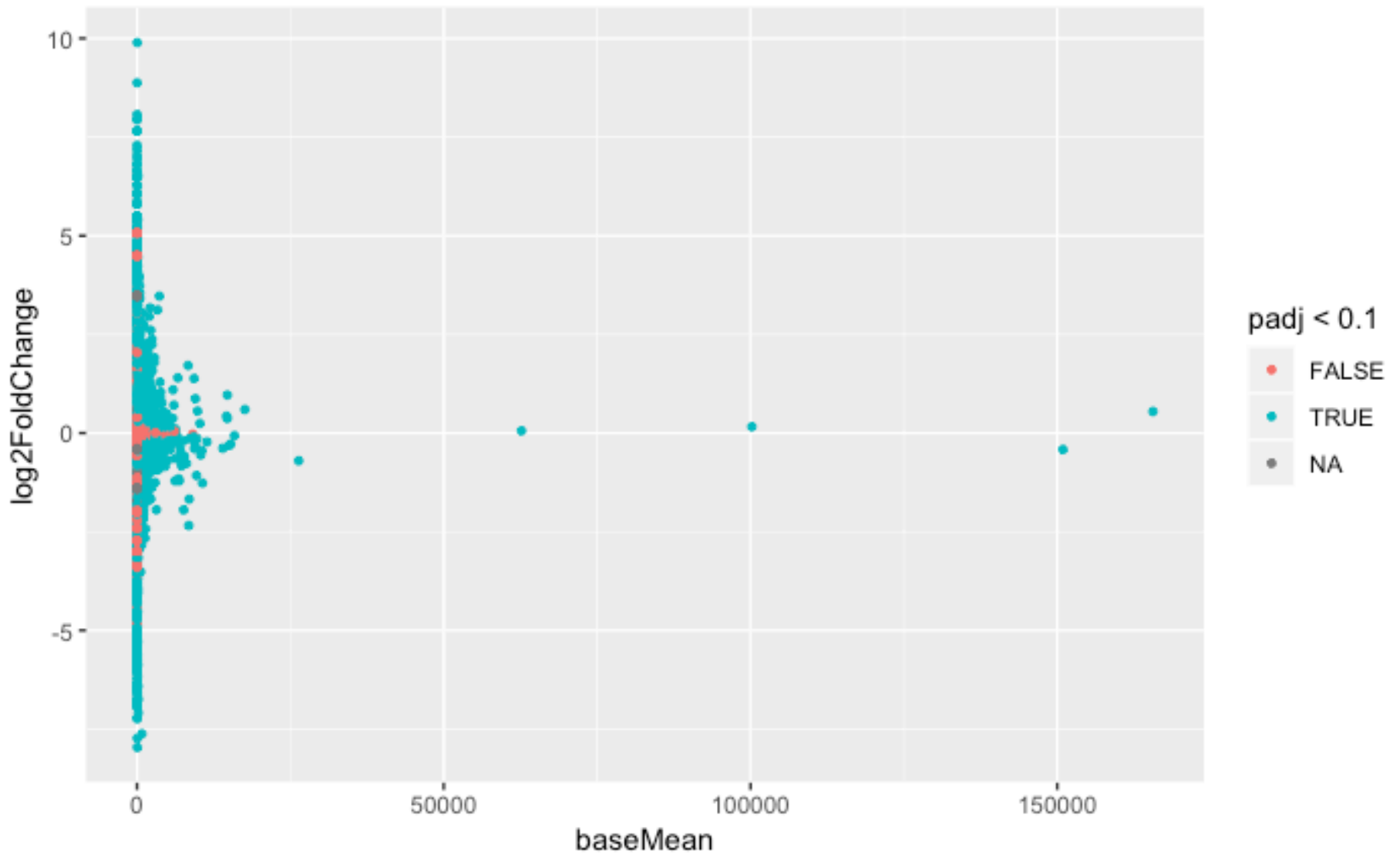
```
final <- as.data.frame(res)
head(final)
```

GeneSymbol	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
<fctr>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
1 DDX11L1	0	NA	NA	NA	NA	NA
2 WASH7P	0	NA	NA	NA	NA	NA
3 MIR6859-3	0	NA	NA	NA	NA	NA
4 MIR6859-2	0	NA	NA	NA	NA	NA
5 MIR6859-1	0	NA	NA	NA	NA	NA
6 MIR6859-4	0	NA	NA	NA	NA	NA

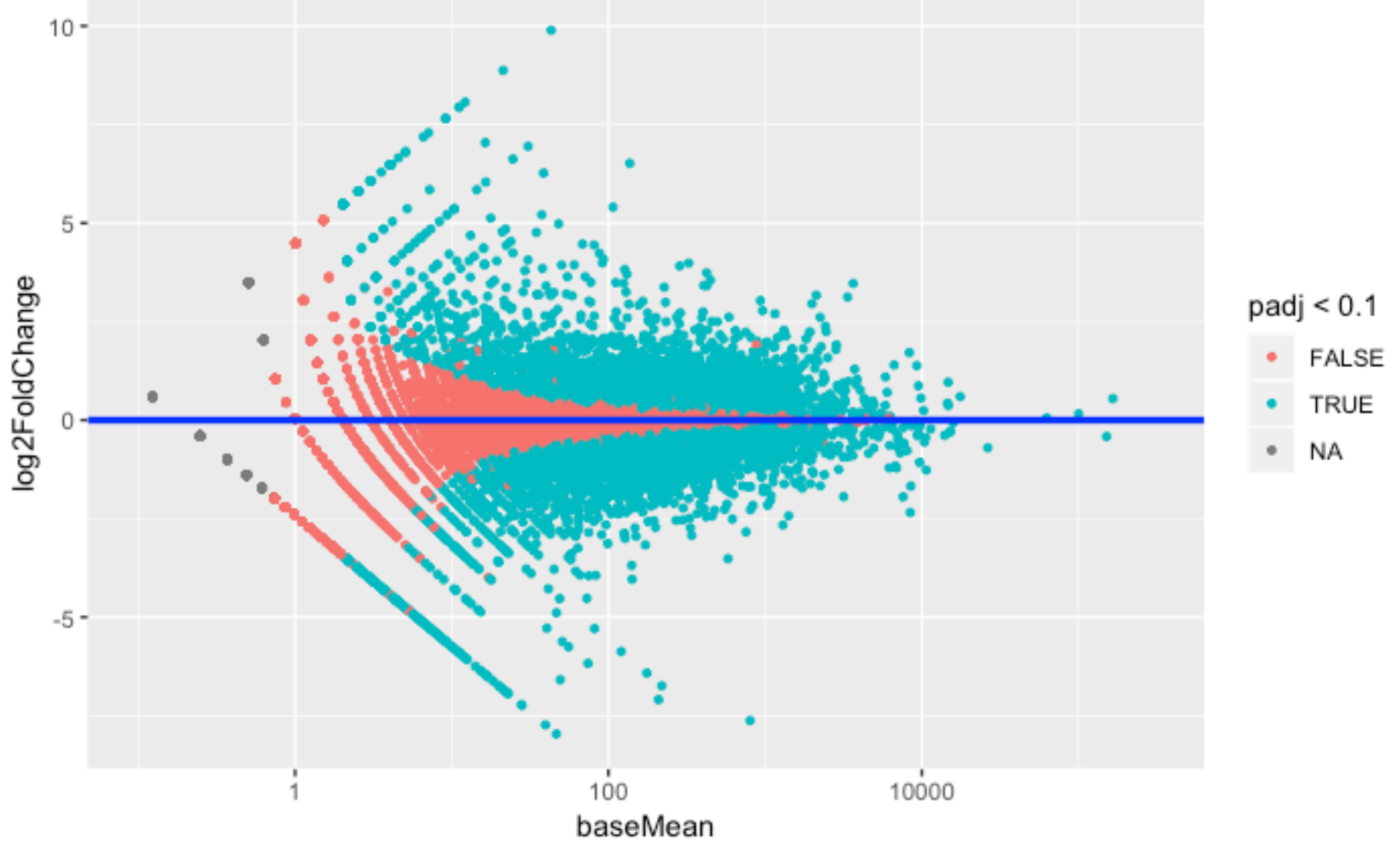
6 rows

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```
library(ggplot2)
ggplot(final, aes(x=baseMean, y=log2FoldChange)) +
  geom_point(aes(colour = padj<0.1), size=1)
```



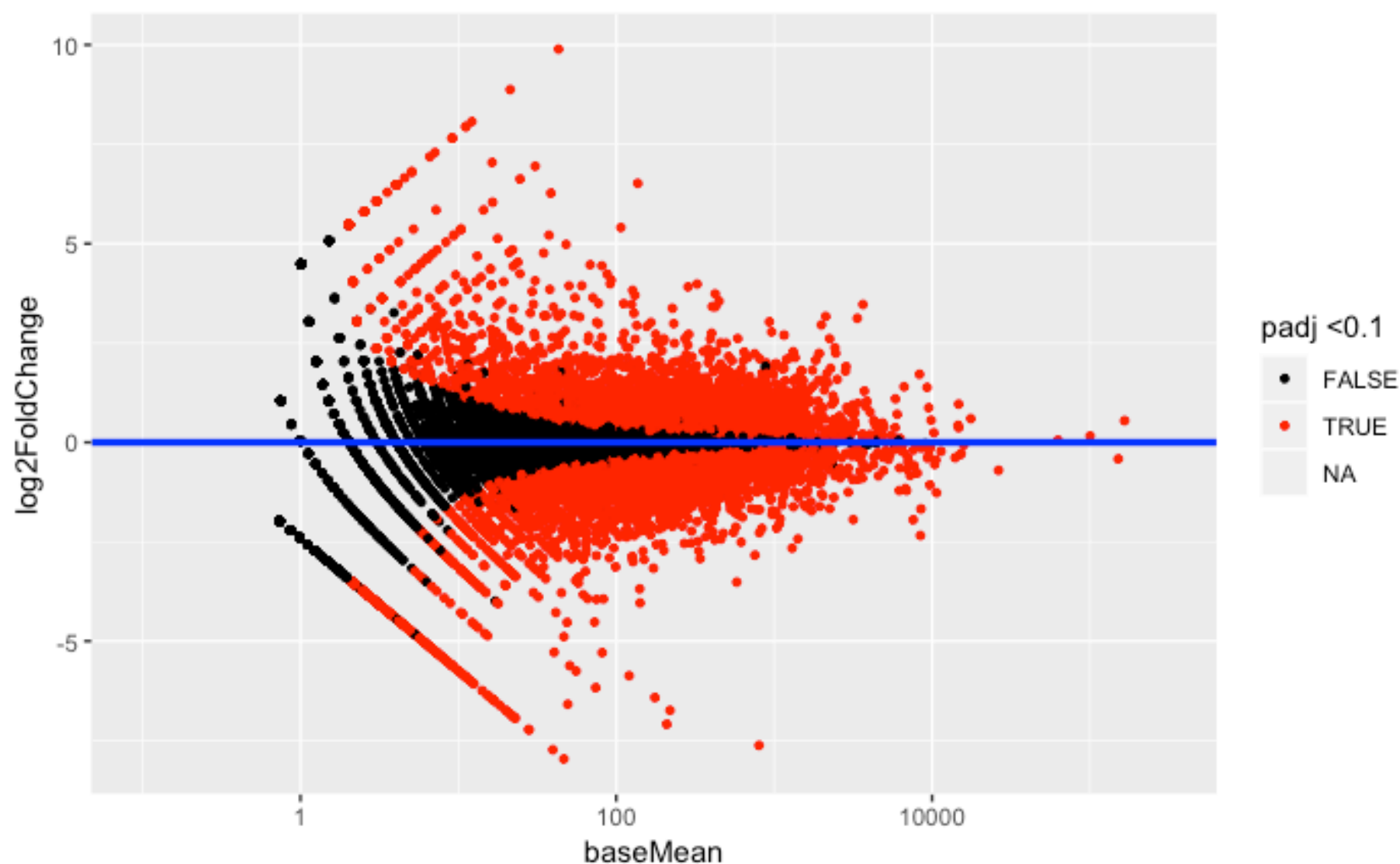
```
ggplot(final, aes(x=baseMean, y=log2FoldChange)) +
  geom_point(aes(colour = padj<0.1), size=1)+
  geom_hline(aes(yintercept =0), colour ="blue", size =1.2)+
  scale_x_continuous(trans = "log10", limits = c(0.1, 300000))
```



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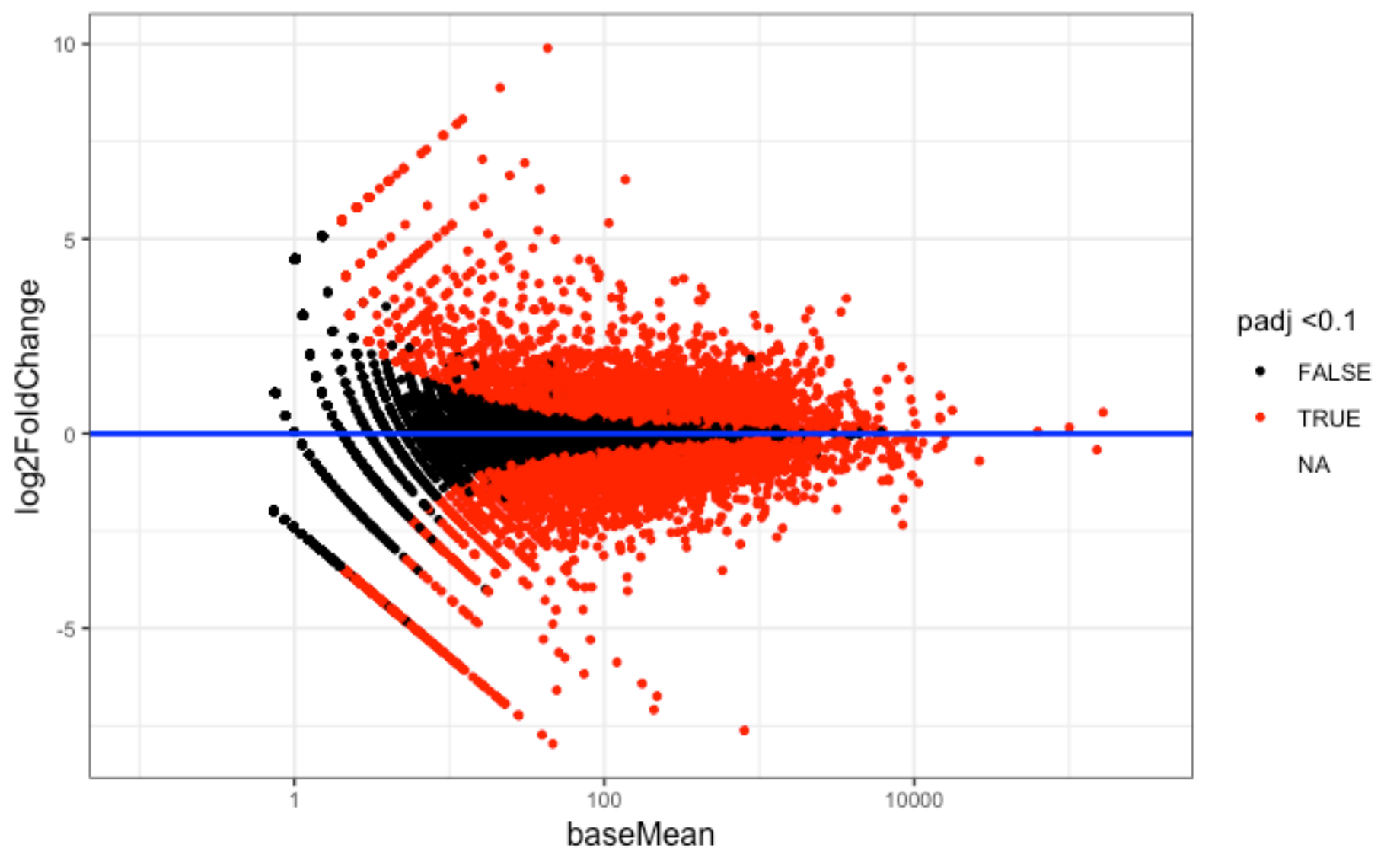
```
ggplot(final, aes(x=baseMean, y=log2FoldChange)) +
  geom_point(aes(colour = padj<0.1), size=1)+
  geom_hline(aes(yintercept =0), colour ="blue", size =1.2)+
  scale_color_manual(name='padj <0.1', values = setNames(c('red', 'black'), c(T,F)))+
  scale_x_continuous(trans = "log10", limits = c(0.1, 300000))
```



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```
theme_1 <- theme_bw() +
  theme(axis.title = element_text(size = 12),
        axis.text = element_text(size = 8))
ggplot(final, aes(x=baseMean, y=log2FoldChange)) +
  geom_point(aes(colour = padj<0.1), size=1)+
  geom_hline(aes(yintercept =0), colour ="blue", size =1)+
  scale_color_manual(name='padj <0.1', values = setNames(c('red', 'black'), c(T,F)))+
  scale_x_continuous(trans = "log10", limits = c(0.1, 300000))+
  theme_1
```



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```
ggplot(final, aes(x=baseMean, y=log2FoldChange)) +
  geom_point(aes(colour = padj<0.1), size=1)+
  geom_hline(aes(yintercept =0), colour ="blue", size =1)+
  scale_color_manual(name='padj <0.1', values = setNames(c('red', 'black'), c(T,F))
)+
  scale_x_continuous(trans = "log10", limits = c(0.1, 300000))+
  geom_text(aes(label=GeneSymbol),
    color = 'gray20',
    data = final %>%
      filter(GeneSymbol %in% padj < 0.1))
```


14255	TMSB10	8320.9946	1.7122875	0.02759413	62.05260	0.000000e+00	0.0
19358	MSMO1	1989.8795	2.9555778	0.05665227	52.17051	0.000000e+00	0.0

1-10 of 20 rows

Previous

1

2

Next

Hide

Hide

```
ggplot(final, aes(x=baseMean, y=log2FoldChange)) +
  geom_point(aes(colour = padj<0.1), size=1)+
  geom_hline(aes(yintercept =0), colour ="blue", size =1)+
  scale_color_manual(name='padj <0.1', values = setNames(c('red', 'black'), c(T,F)))+
  scale_x_continuous(trans = "log10", limits = c(0.1, 300000))+
  geom_text(aes(label=GeneSymbol),
            color = 'gray20',
            data = final %>%
              filter(GeneSymbol %in% top20))
```

