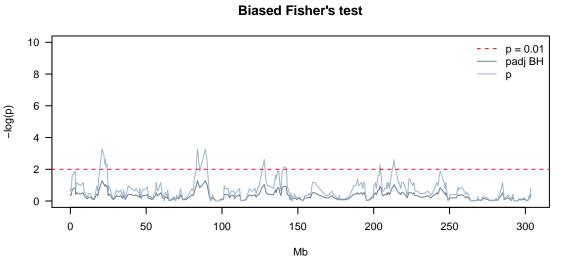
## Overexp genes chr 1 | comp ALL.RUN-RFE 1.0 overexpressed genome mean = 0.173 8.0 Fraction genes 0.6 0.4 0.2 0.0 0 250 50 150 200 300 100 Mb total genes=3105, win len=100 genes, step=10%, log2FC>0 pval<0.001 Overexp Fisher's test 10 p = 0.01padj BH 8 p 6 4 2 0 0 50 200 250 300 100 150 Mb Underexp genes chr 1 | comp ALL.RUN-RFE 1.0 underexpressed genome mean = 0.152 8.0 Fraction genes 0.6 0.4 0.2 0.0 0 250 300 50 100 150 200 Mb total genes=3105, win len=100 genes, step=10%, log2FC<-0 pval<0.001 **Underexp Fisher's test** 10 p = 0.01padj BH 8 p 6 4 2 0 0 50 250 300 100 200 150 Mb DE genes biased (ov+un) 1.0 over + under genome mean = 0.325 8.0 Fraction genes 0.6 0.4 0.2 0.0 0 50 100 150 200 250 300 Mb total genes=3105, win len=100 genes, step=10%, |log2FC|>0 pval<0.001



## Overexp genes chr 2 | comp ALL.RUN-RFE 1.0 overexpressed genome mean = 0.173 8.0 Fraction genes 0.6 0.4 0.2 0.0 0 100 200 300 400 Mb total genes=5279, win len=100 genes, step=10%, log2FC>0 pval<0.001 Overexp Fisher's test 10 p = 0.01padj BH 8 p 6 4 2 0 0 100 200 300 400 Mb Underexp genes chr 2 | comp ALL.RUN-RFE 1.0 underexpressed genome mean = 0.152 8.0 Fraction genes 0.6 0.4 0.2 0.0 0 100 200 300 400 Mb total genes=5279, win len=100 genes, step=10%, log2FC<-0 pval<0.001 **Underexp Fisher's test** 10 p = 0.01padj BH 8 p 6 4 2 0 0 100 200 300 400 Mb DE genes biased (ov+un) 1.0 over + under genome mean = 0.325 8.0 Fraction genes 0.6 0.4 0.2 0.0 0 100 200 300 400 Mb total genes=5279, win len=100 genes, step=10%, |log2FC|>0 pval<0.001 **Biased Fisher's test**

p = 0.01 padj BH

p

400

10

8

6

4

2

0

0

100

200

Mb

300

## Overexp genes chr 3 | comp ALL.RUN-RFE 1.0 overexpressed genome mean = 0.173 8.0 Fraction genes 0.6 0.4 0.2 0.0 0 200 300 400 100 Mb total genes=4598, win len=100 genes, step=10%, log2FC>0 pval<0.001 Overexp Fisher's test 10 p = 0.01padj BH 8 p 6 4 2 0 0 100 300 400 200 Mb Underexp genes chr 3 | comp ALL.RUN-RFE 1.0 underexpressed genome mean = 0.152 8.0 Fraction genes 0.6 0.4 0.2 0.0 0 100 300 400 200 Mb total genes=4598, win len=100 genes, step=10%, log2FC<-0 pval<0.001 **Underexp Fisher's test** 10 p = 0.01padj BH 8 6 4 2 0 0 100 300 400 200 Mb DE genes biased (ov+un) 1.0 over + under genome mean = 0.325 8.0 Fraction genes 0.6 0.4 0.2 0.0 0 100 200 300 400 Mb total genes=4598, win len=100 genes, step=10%, |log2FC|>0 pval<0.001 **Biased Fisher's test** 10 p = 0.01 padj BH 8 6 4 2 0 0 200

100

300

Mb

400